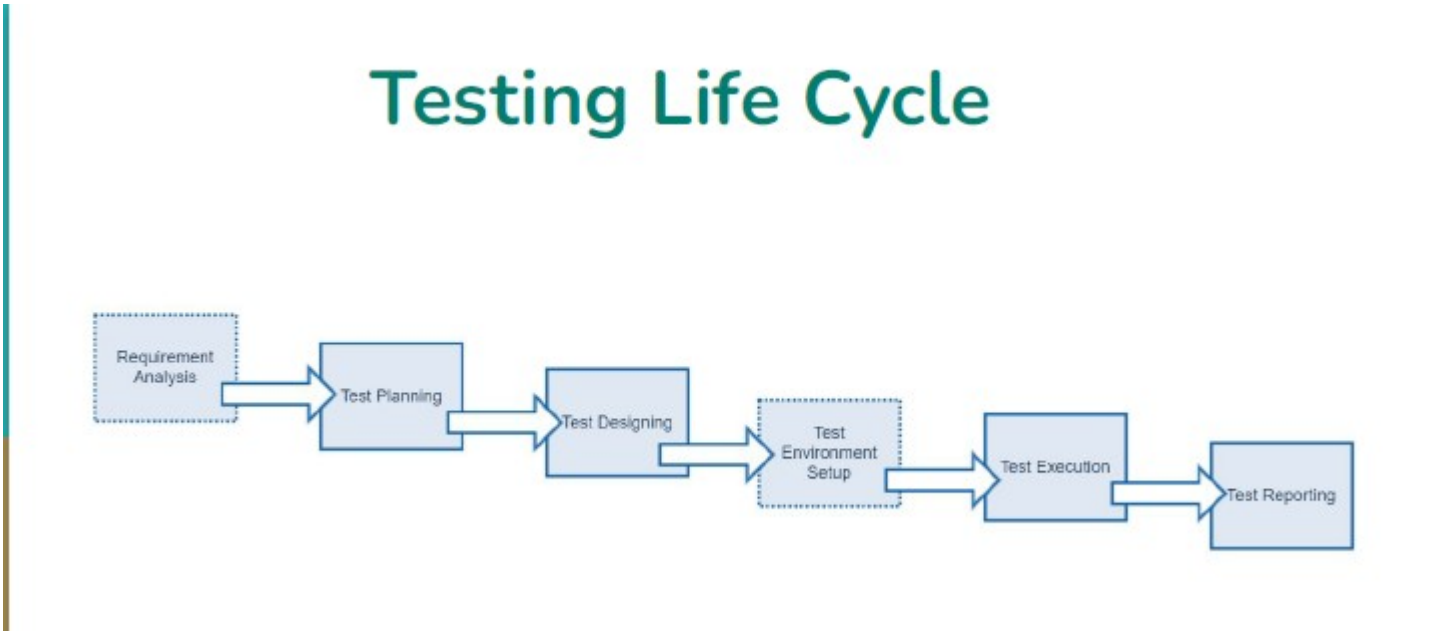


The **Testing Life Cycle** shown in the image consists of six stages. Below is a breakdown of each stage with examples:

1. Requirement Analysis

- **Purpose:** Understand the ride-sharing app features and testing scope.
- **Example:**
  - The app allows users to **book a ride**, **track the driver**, and **make payments**.
  - Requirement: "A user should be able to enter a pickup and drop-off location, estimate the fare, and confirm the ride."

---

2. Test Planning

- **Purpose:** Define the testing approach, scope, schedule, and assign resources.
- **Example:**
  - **Types of Testing:**
    - **Functional Testing:** Ensure ride booking works correctly.
    - **Performance Testing:** Ensure app response time is fast under heavy load.
    - **Security Testing:** Verify that payment details are encrypted.
  - Assign testers to different modules (Booking, Payment, Notifications).

---

3. Test Designing

- **Purpose:** Create detailed test cases and prepare test data.
- **Example:**
  - **Test Case:** Verify that a user can successfully book a ride.
  - **Test Steps:**
    1. Open the app and log in.
    2. Enter pickup and drop-off locations.
    3. Choose a ride type (e.g., Economy, Premium).
    4. Confirm the ride.
  - **Expected Result:** The ride is confirmed, and the driver is assigned.
  - **Test Data:**
    1. **Valid Test Data:** Pickup: "Downtown", Drop-off: "Airport".
    2. **Invalid Test Data:** Pickup: "", Drop-off: "Unknown Location".

---

4. Test Environment Setup

- **Purpose:** Prepare devices, network settings, and servers for testing.
- **Example:**
  - Install the ride-share app on **iOS and Android devices**.
  - Set up test accounts:
    - **User Account:** testuser@rideshare.com
    - **Driver Account:** testdriver@rideshare.com
  - Connect to a **test payment gateway** (dummy credit card).

---

5. Test Execution

- **Purpose:** Execute test cases, log defects, and retest fixes.
- **Example:**
  - Run the **ride booking test case** using test data.
  - If the app **crashes when selecting a ride type**, report a **bug**.
  - If payment fails with a **valid credit card**, report a **bug** in Jira.

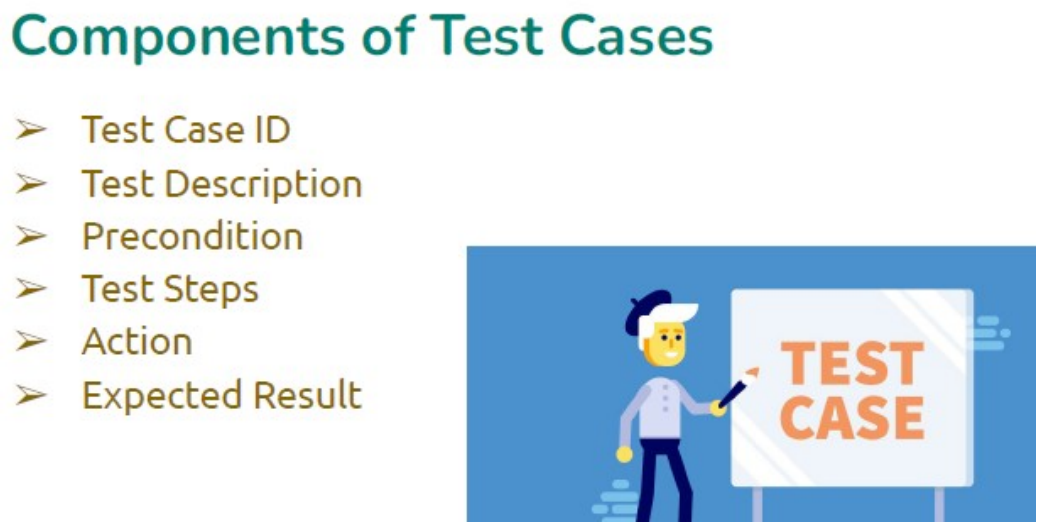
---

6. Test Reporting

- **Purpose:** Summarize test results, report defects, and provide insights.
- **Example:**
    - **Test Report:**
        - **Total test cases executed:** 100
        - **Passed:** 90
        - **Failed:** 10 (Reported bugs: "App crash on ride selection", "Incorrect fare calculation").
    - Share the report with the development team for bug fixing.

Final Thoughts

This testing process ensures the ride-sharing app is **functional, reliable, and user-friendly** before release.



Components of Test Cases

- ***Test Case ID*** - uniquely identify the TC
  - Ex: US#_TC#_Brief Summary
- ***Test Description*** - brief description of TC
- ***Precondition*** - step "0"
  - Ex: login
- ***Test Steps*** - actual steps you need to take
- ***Action*** - actual action
- ***Expected Result*** - expected as a result of above action

How Create Test Cases ?

Click on Create button

Issue type: Choose "Test"

Summary: SD#_TC#_COPY OF TITLE

Description: copy of description

Linked Issues: tests - SD#

Assign to yourself

Click on Create button.

Adding steps:

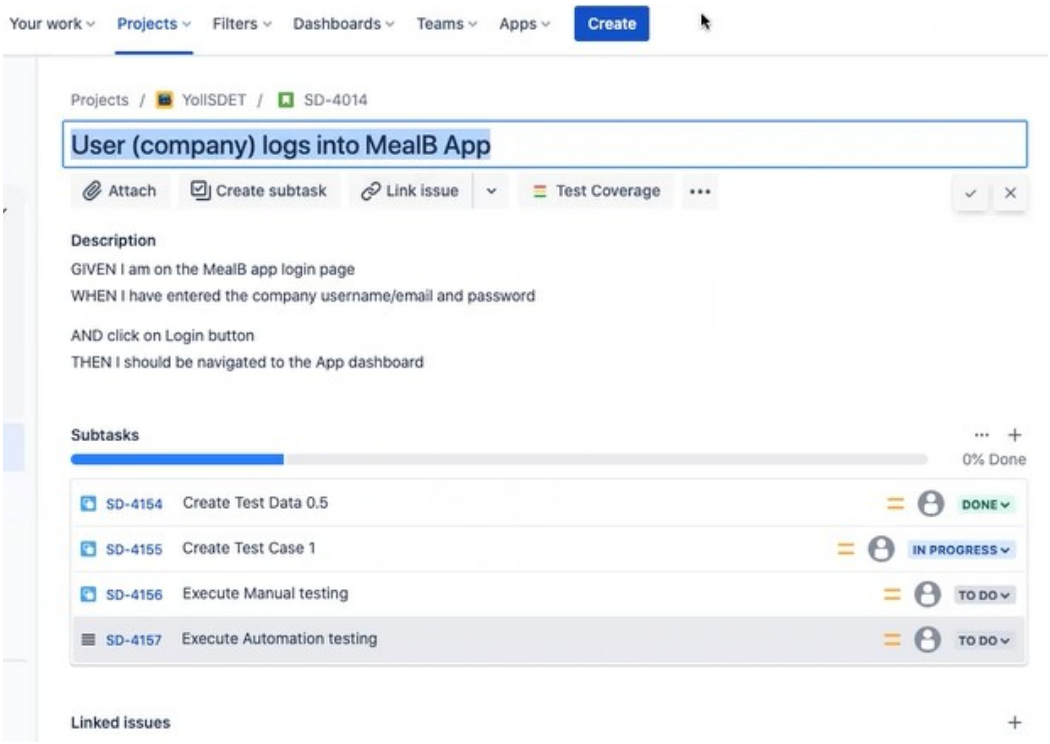
Click on your test case that you created.

Scroll down and click on Add Step/ new

Write Action and Expected Results

After creating Subtasks, Create a Test Case:

User story number : SD-4014

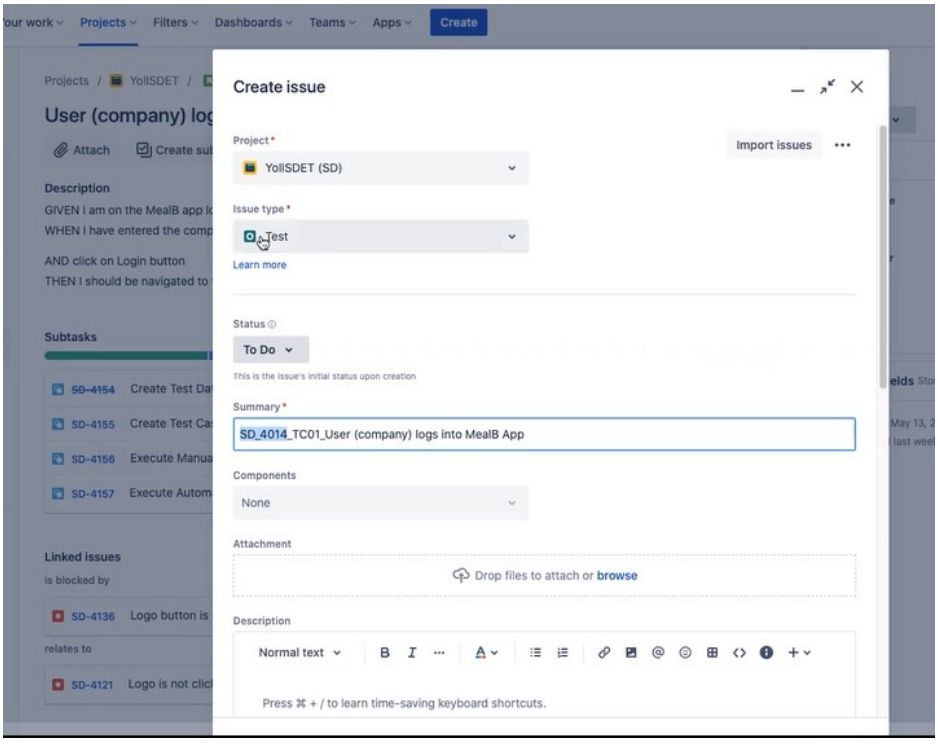


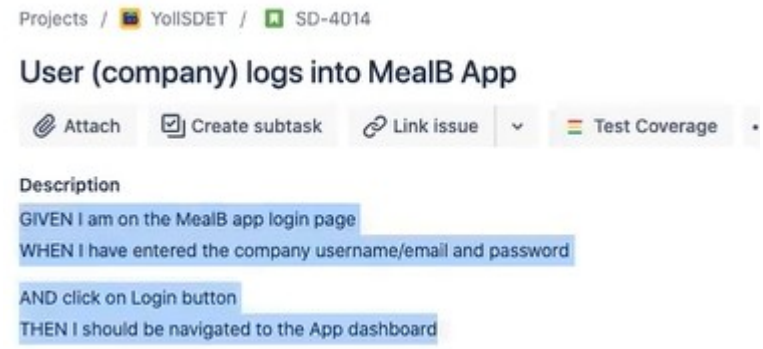
Test Case Number has the same User Story number !

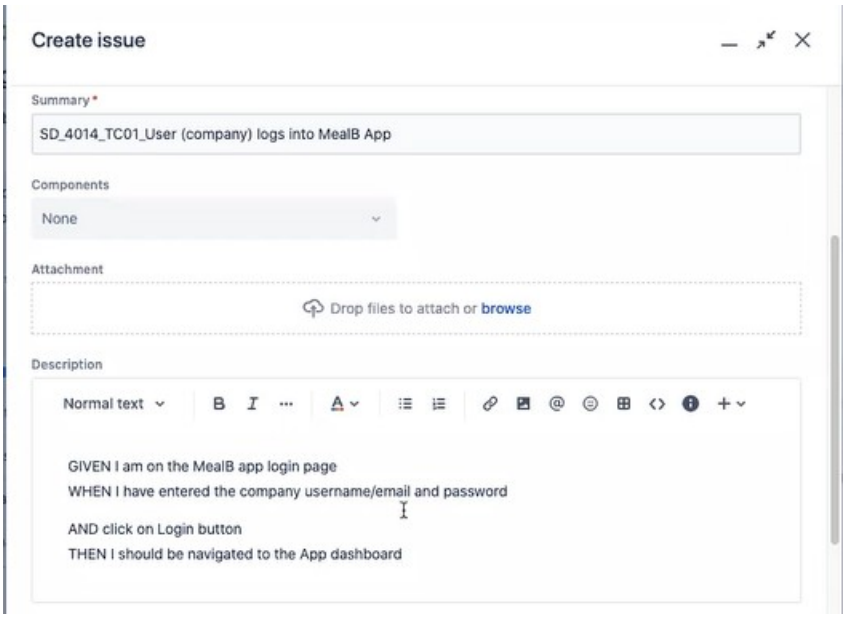
Put TC01, it is a rule.

The summary has the same title of user story

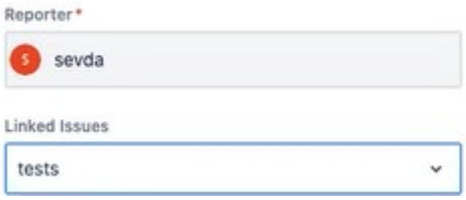
Copy the description from user story, and paste on Test Case Description (They are the same)



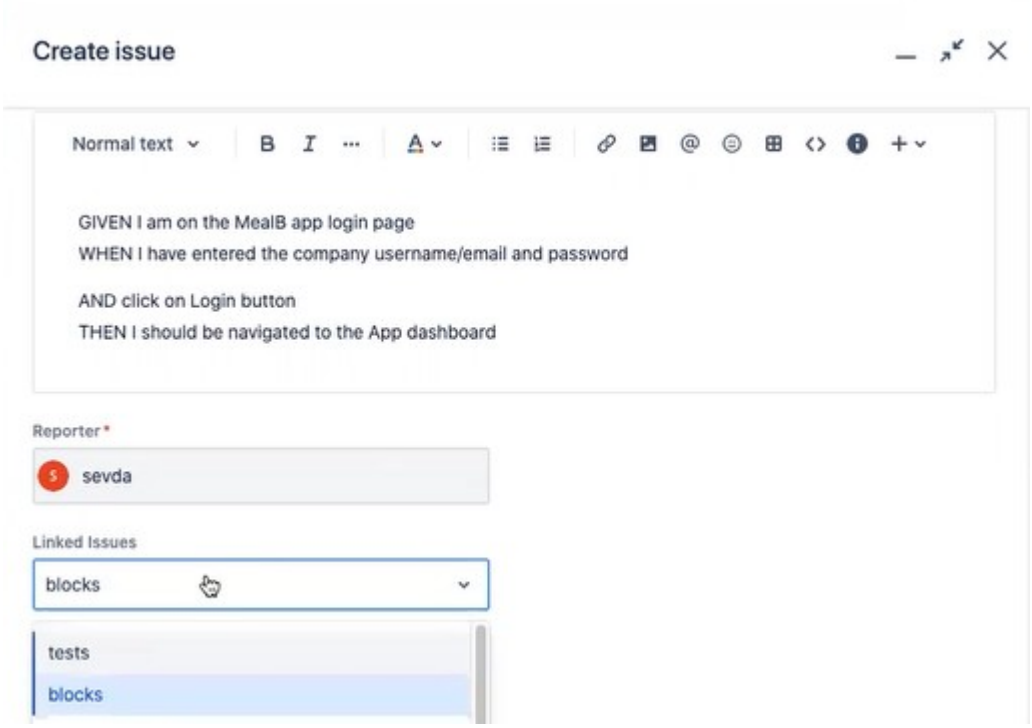

Projects / YollSDET / SD-4014
User (company) logs into MealB App
Attach
Create subtask
Link issue
Test Coverage
Description
GIVEN I am on the MealB app login page
WHEN I have entered the company username/email and password
AND click on Login button
THEN I should be navigated to the App dashboard


Create issue
Summary *
SD_4014_TC01_User (company) logs into MealB App
Components
None
Attachment
Drop files to attach or browse
Description
Normal text
GIVEN I am on the MealB app login page
WHEN I have entered the company username/email and password
AND click on Login button
THEN I should be navigated to the App dashboard

Choose the reporter, and Linked issues: tests



IF the BUG blocks the user story Choose blocks not tests:

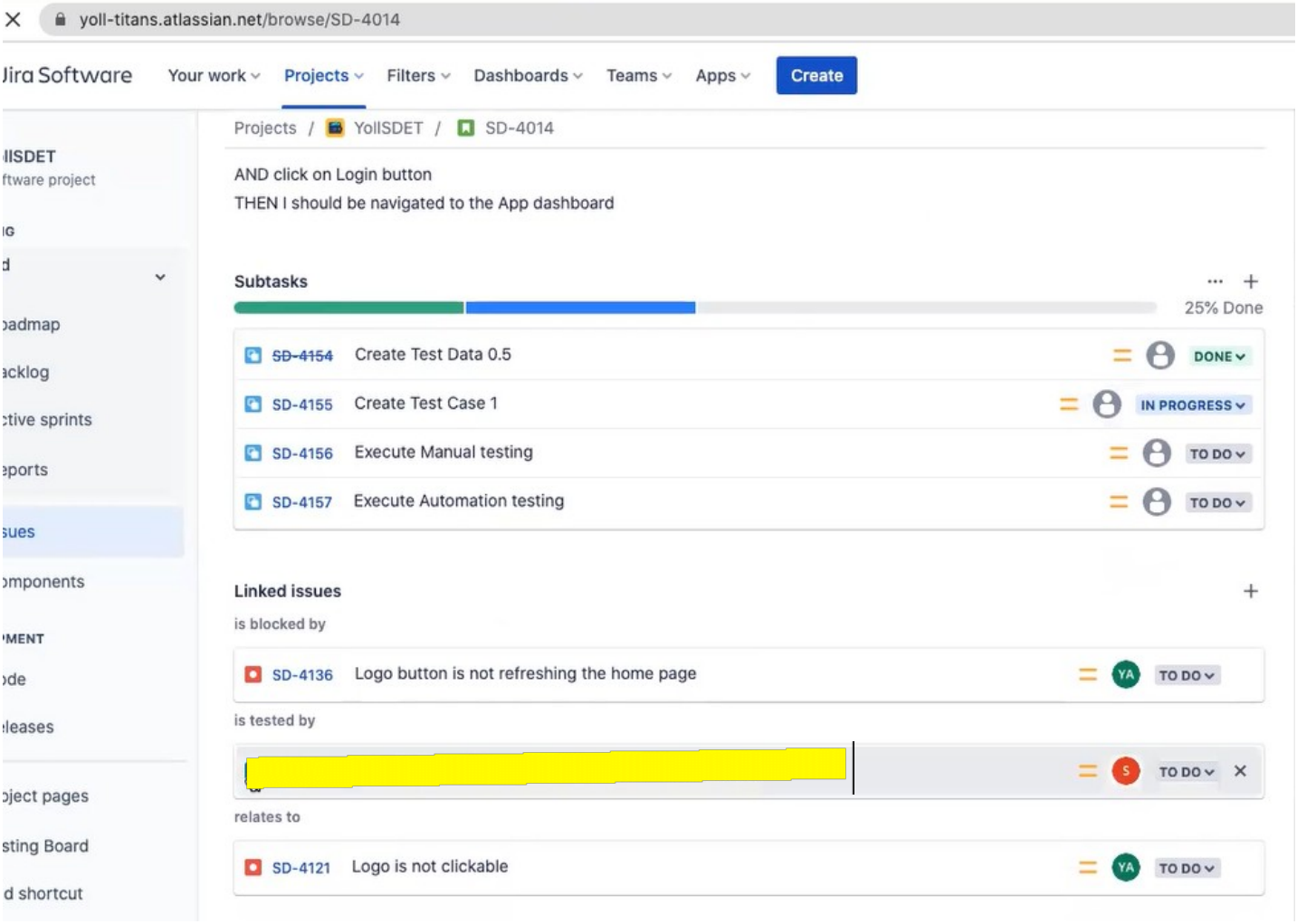


Choose the user story: 4014

Assign to me:

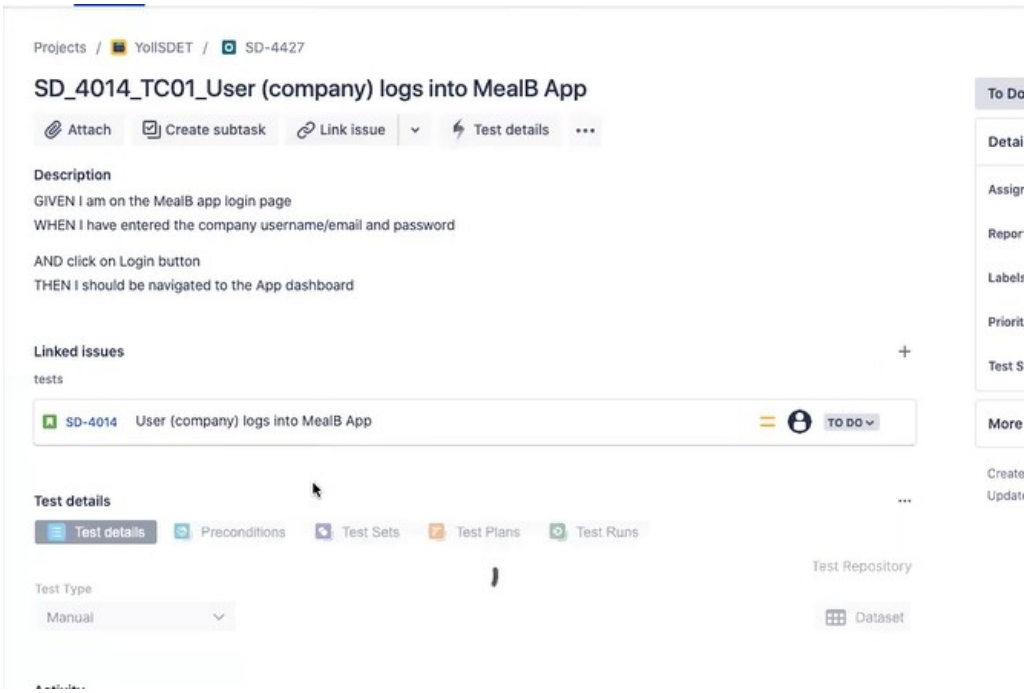
Then click on CREATE BUTTON.

Refresh the page to see the Test Case:

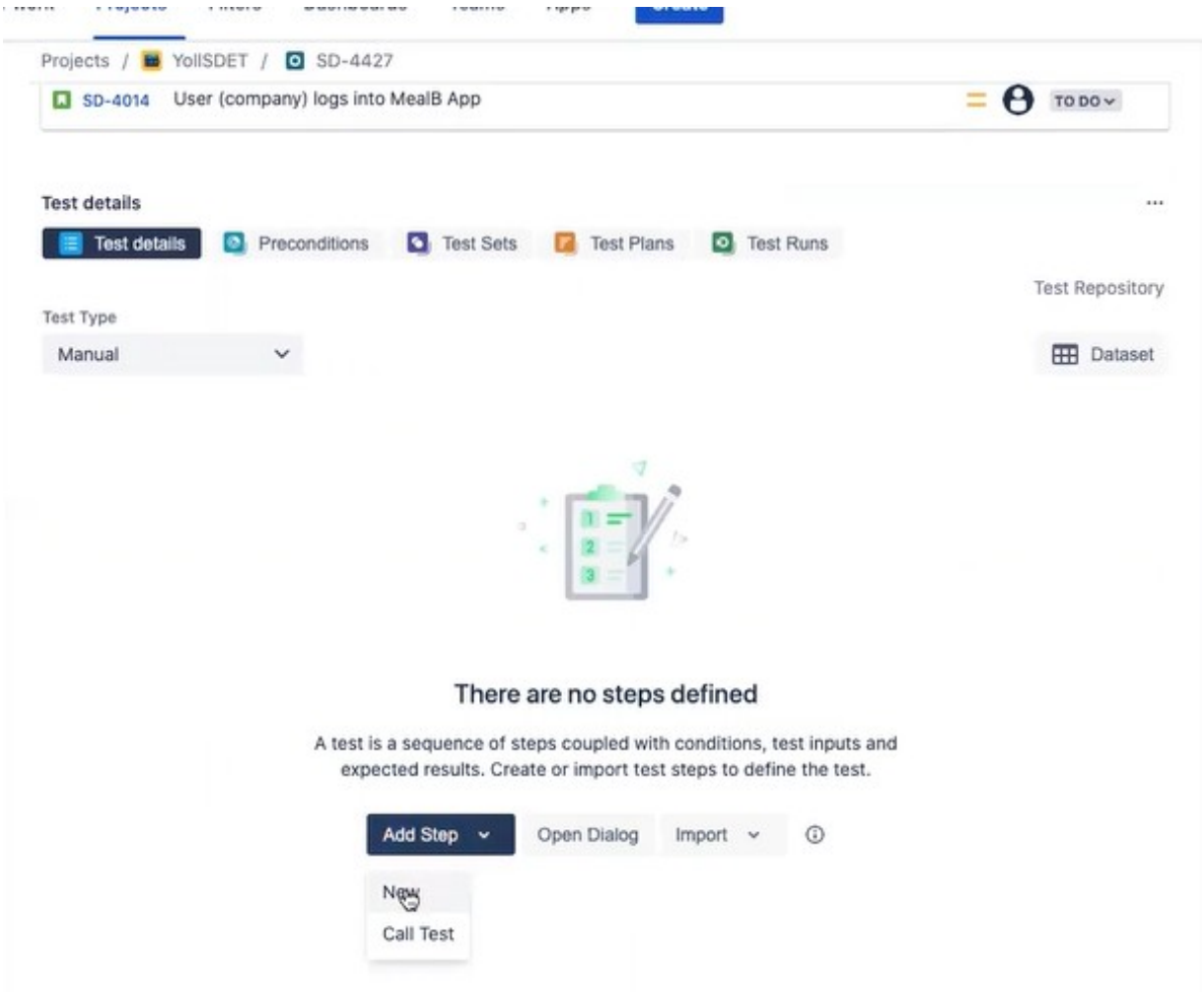


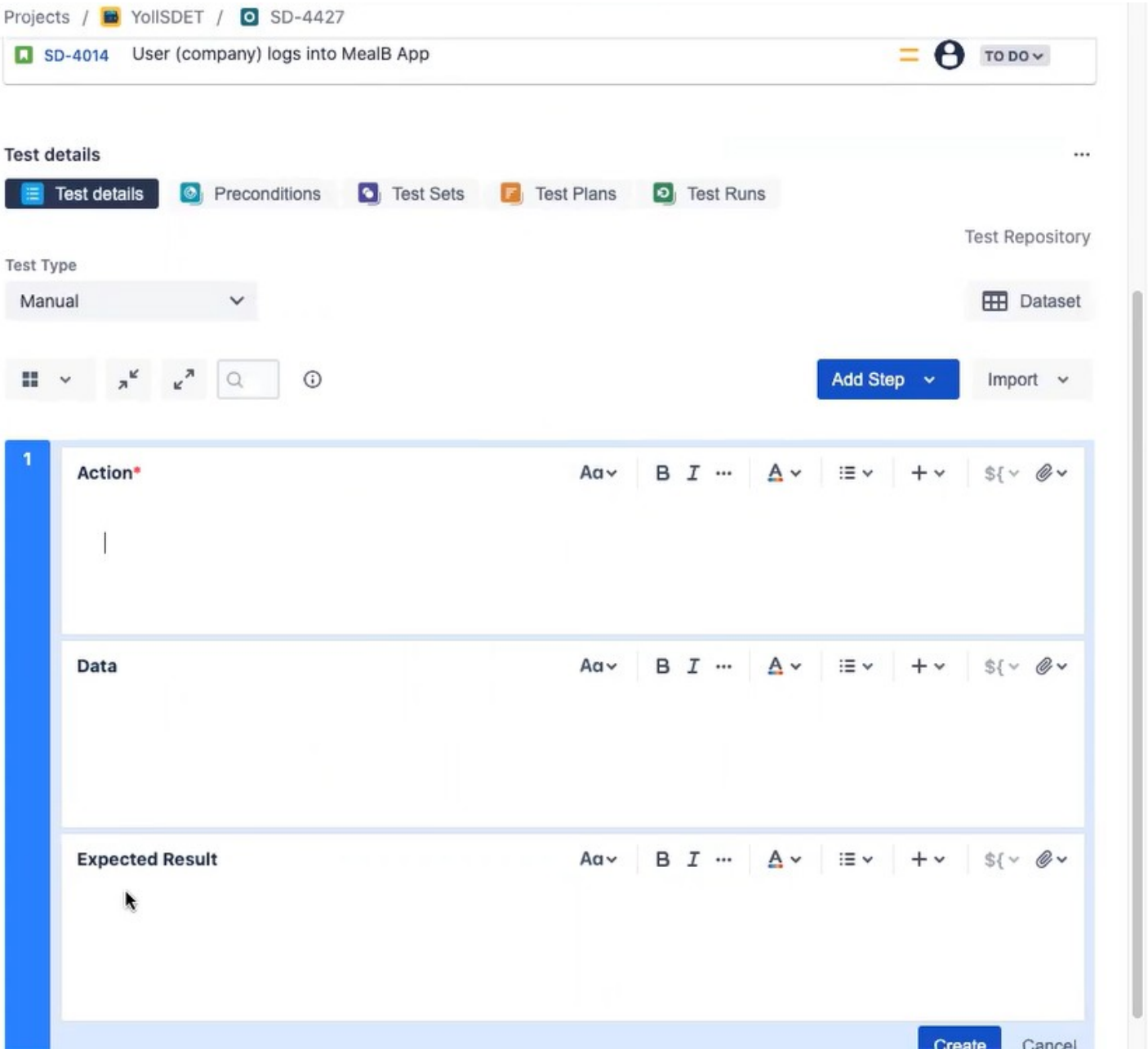
Click on the test case to add the steps

The Test Case has a different ID number from the User Story

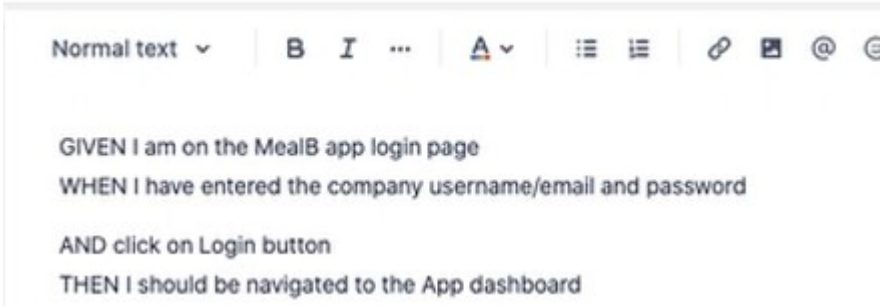


Scroll down, and click on : ADD STEP / NEW





Action is the actual result

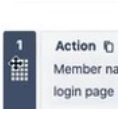

Normal text
GIVEN I am on the MealB app login page
WHEN I have entered the company username/email and password
AND click on Login button
THEN I should be navigated to the App dashboard

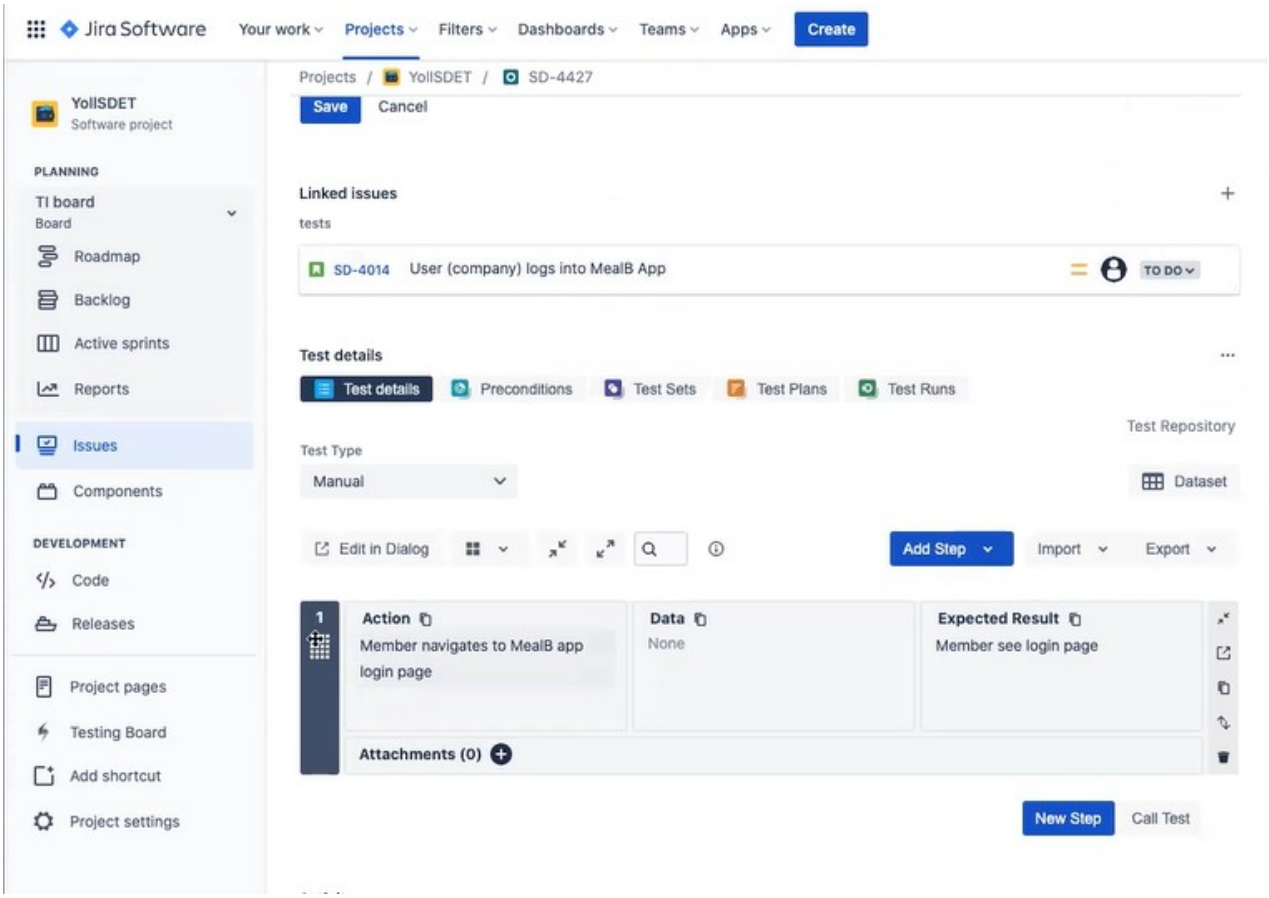
The first Step:

GIVEN I am on the MealB app login page

Click on Create Button.

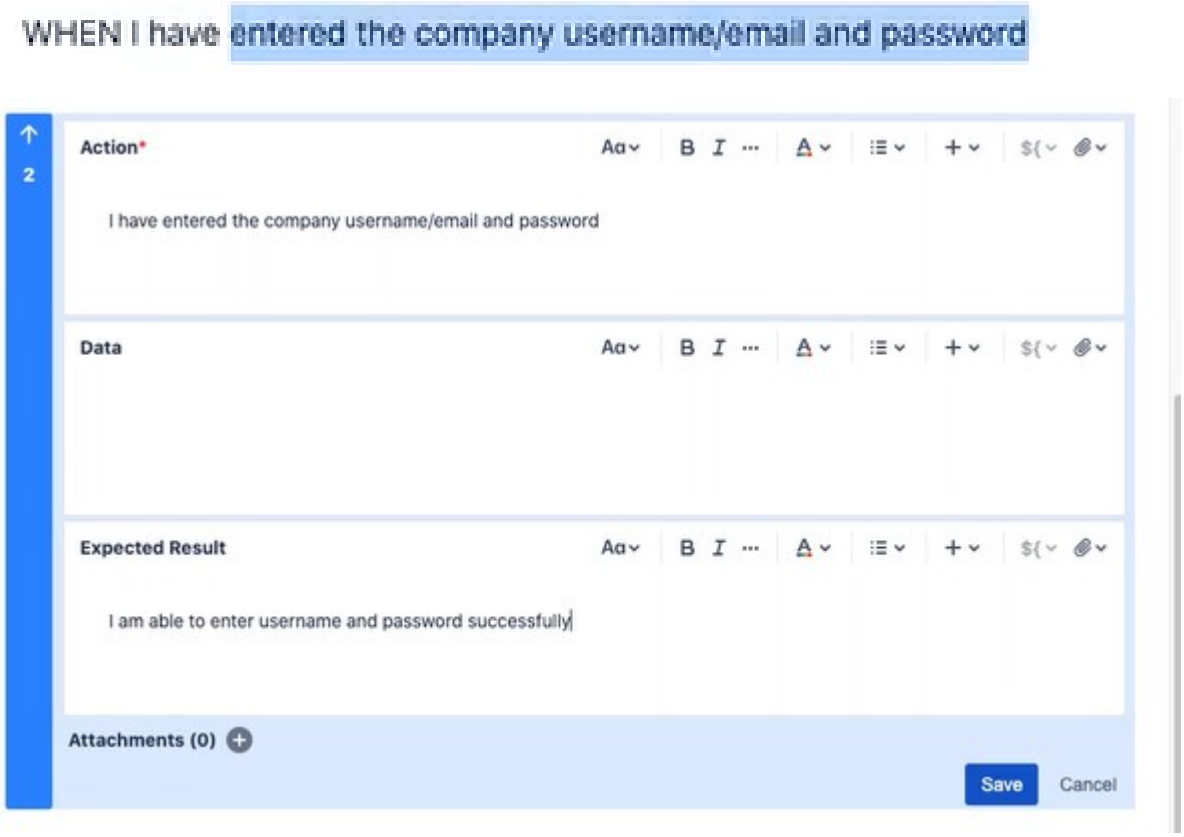
The first step is created: Number one means the first step



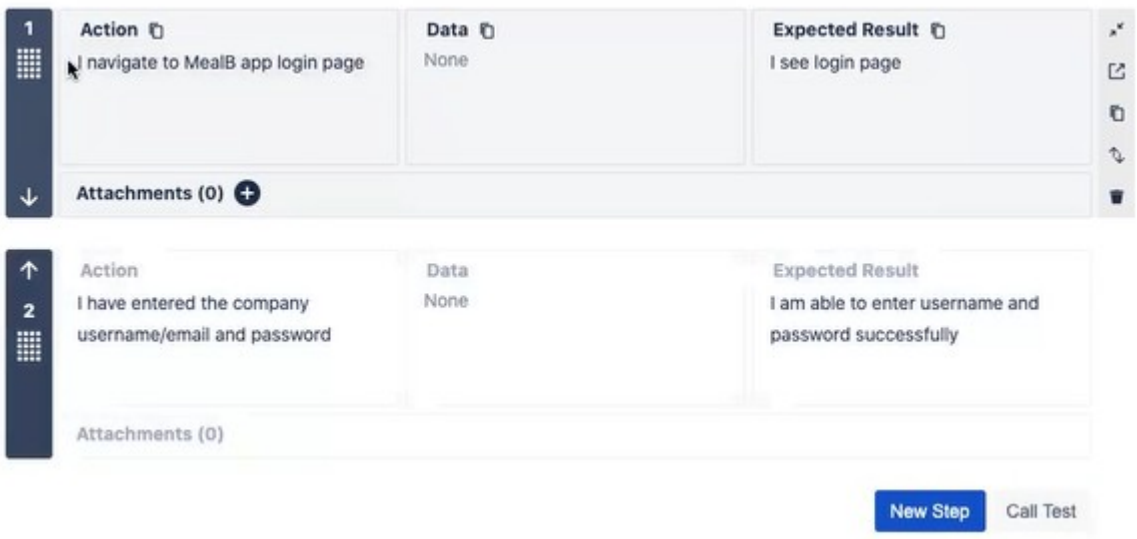


New Step

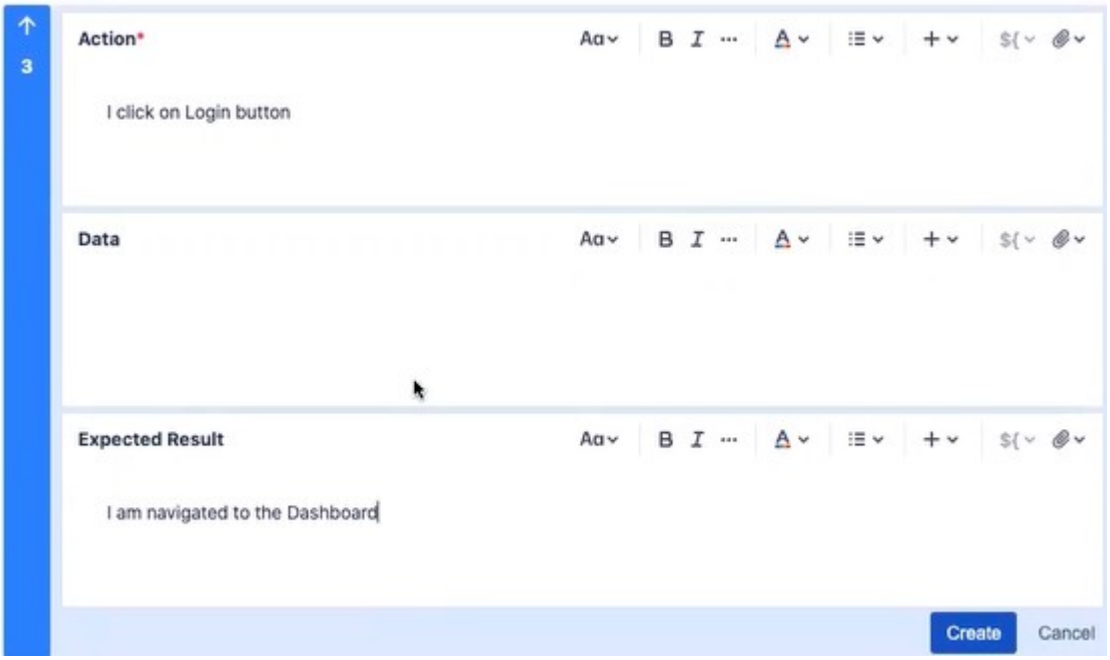
For the next step, click on New Step Button

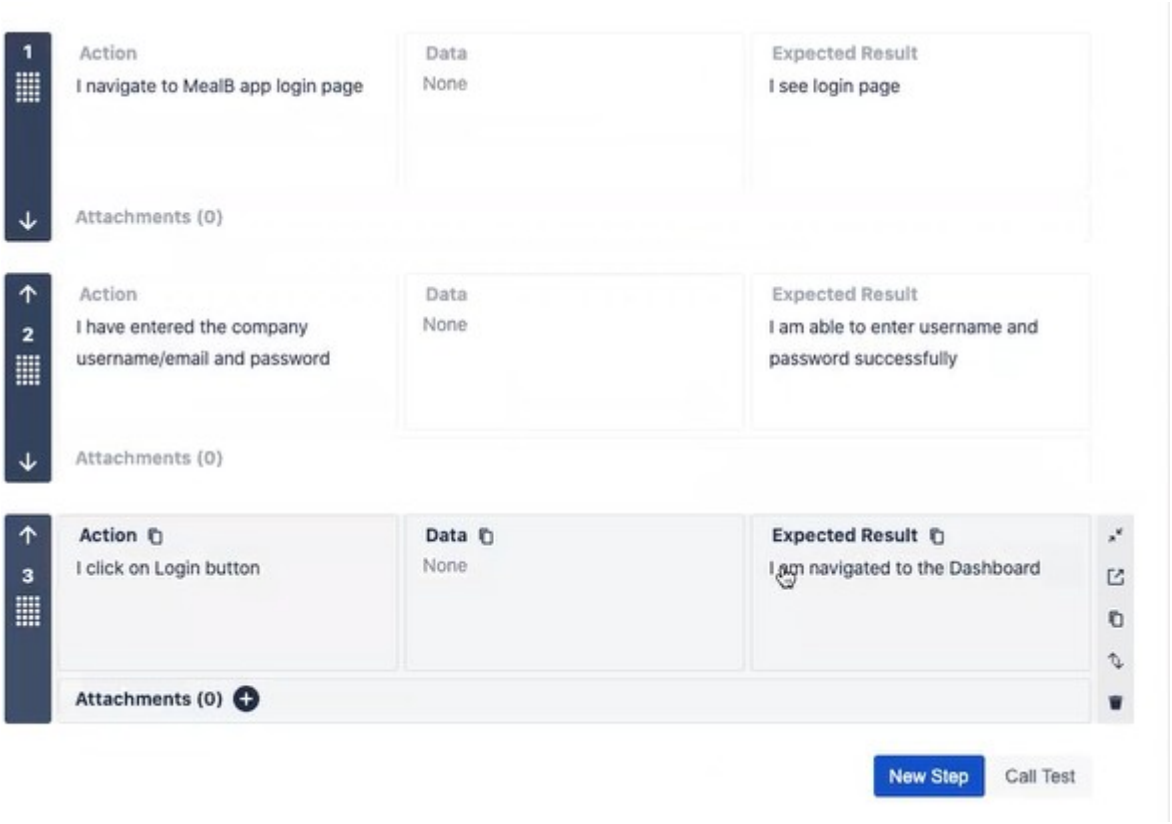


Click on Save Button



New Step


3
Action*
I click on Login button
Data
Expected Result
I am navigated to the Dashboard
Create
Cancel


1
Action
I navigate to MealB app login page
Data
None
Expected Result
I see login page
Attachments (0)
2
Action
I have entered the company username/email and password
Data
None
Expected Result
I am able to enter username and password successfully
Attachments (0)
3
Action
I click on Login button
Data
None
Expected Result
I am navigated to the Dashboard
Attachments (0)
New Step
Call Test

Test Cases

- Usually, every requirement needs at least one Test.
- The success of the Test is determined by ***comparing expected and actual results.***
- Types of Test Cases:
  - **Automated**
    - Automated Tests are executed through an external tool which controls the execution of tests and the comparison of actual outcomes - like Cucumber (is a tool that executes plain-text functional descriptions as automated tests.)
  - **Manual**
    - Manual Tests are user-assisted tests

Different login scenarios:

1. Positive scenario - valid credentials

2. Negative scenarios:

a. Invalid username, valid password

b. Valid username, invalid passw

c. Invalid username, invalid password

d. Empty username and password

e. Using integer where username is accepting only strings

f. Using characters at the beginning of the username

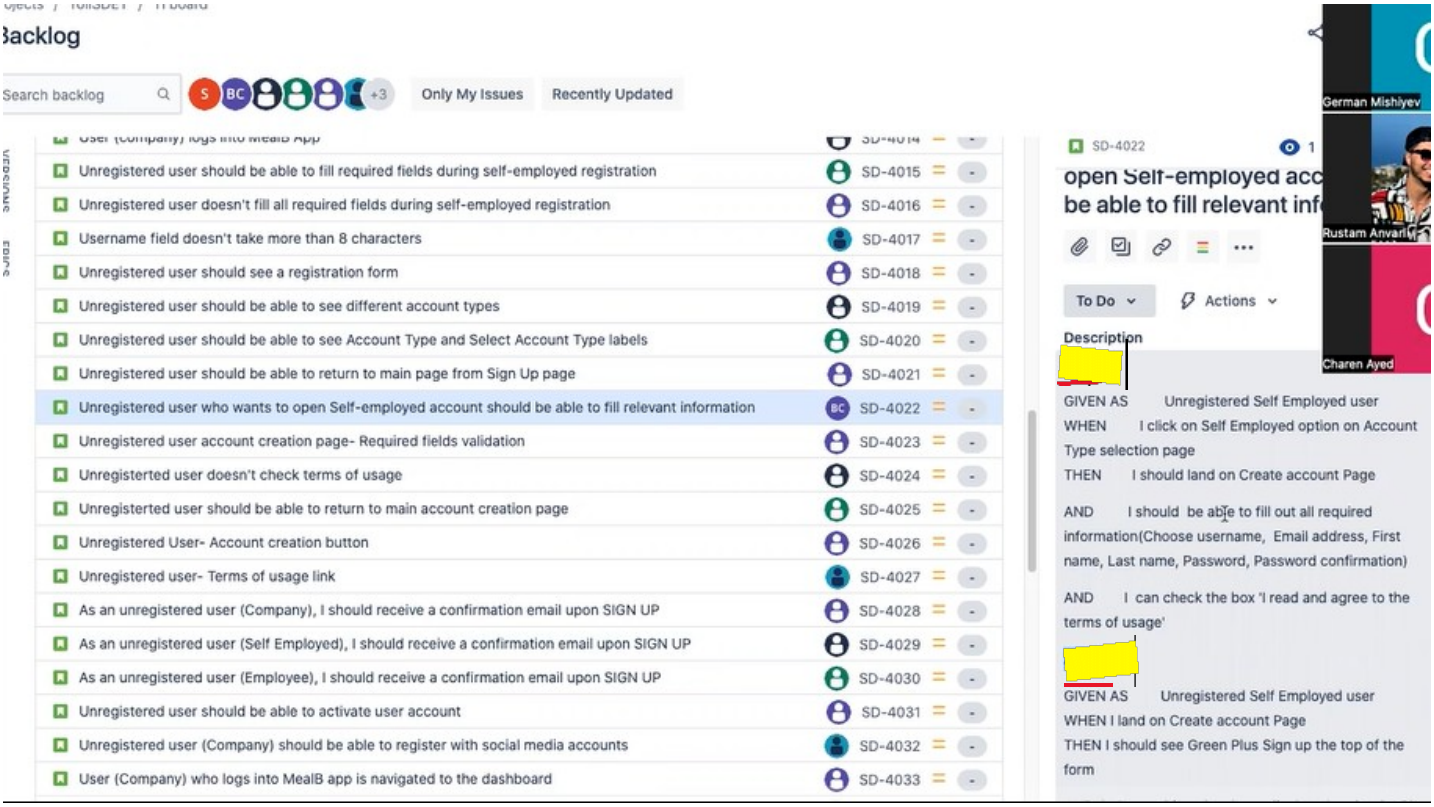
g. Using more than 10 characters where it accepts max 10

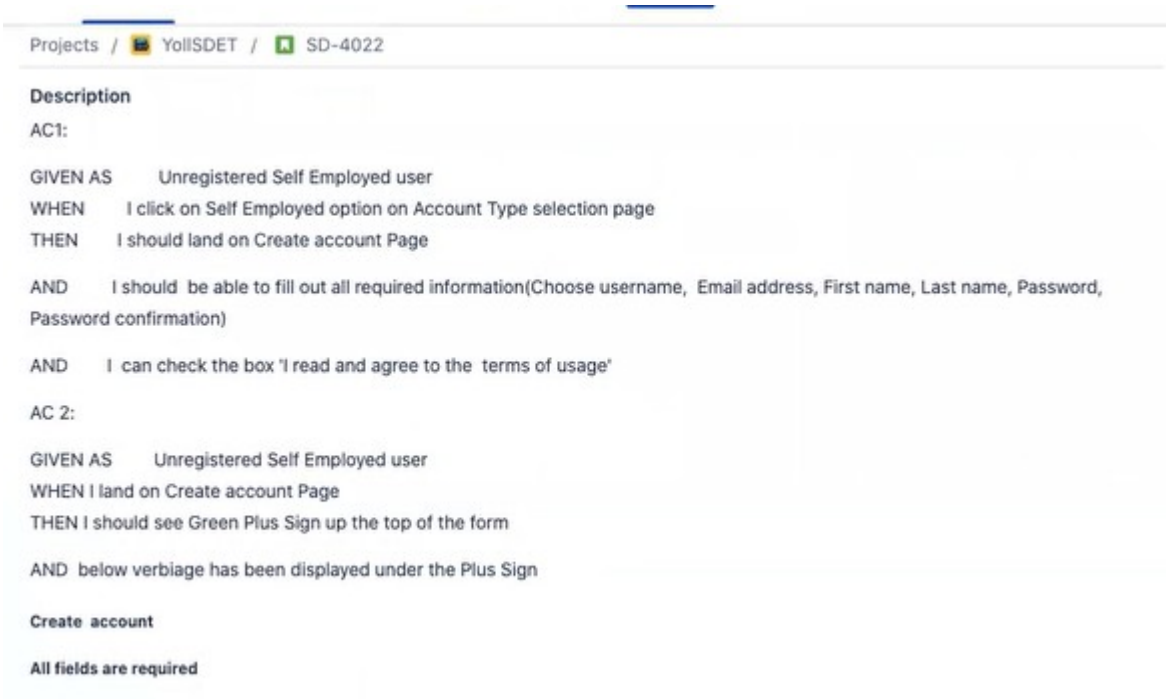
h. Using more than 3 attempts to see if it blocks the user

USER STORY WITH TWO SCENARIOS

If a user story has two SCENARIOS, you need to create TWO TEST CASES

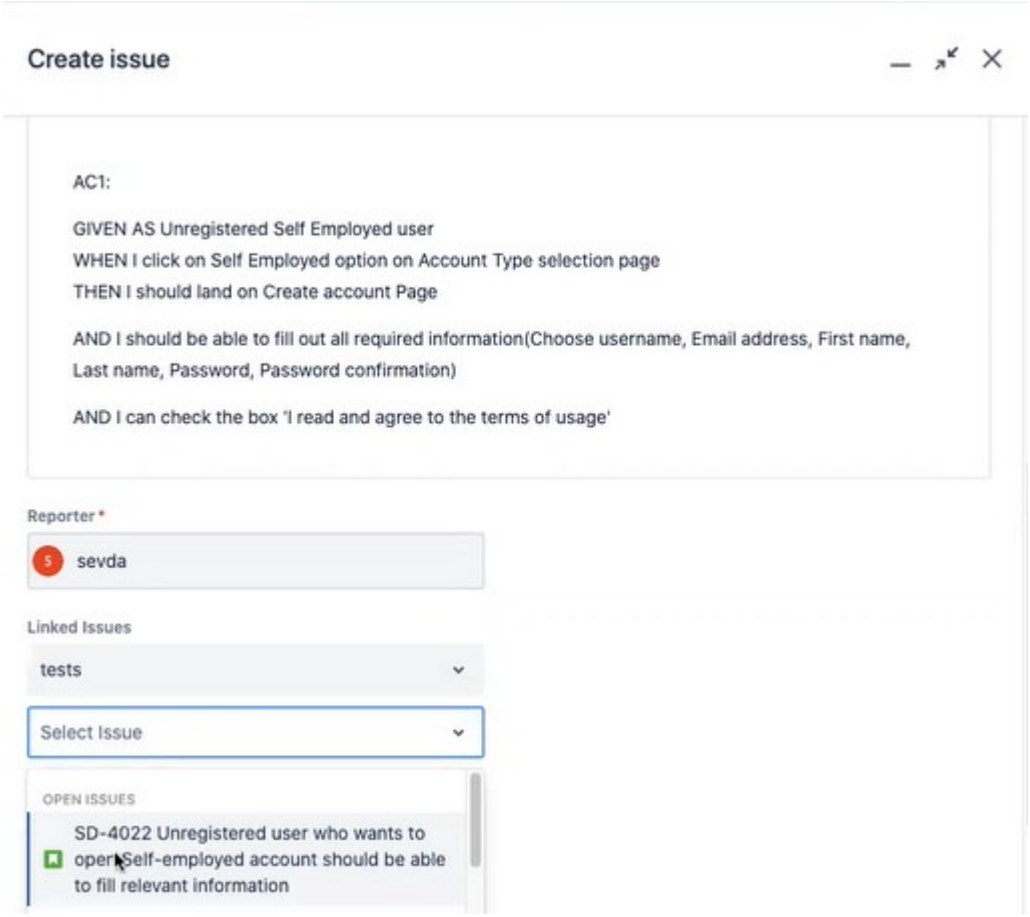
TC01, TC02


Backlog
Search backlog
Only My Issues
Recently Updated
Unregistered user should be able to fill required fields during self-employed registration SD-4015
Unregistered user doesn't fill all required fields during self-employed registration SD-4016
Username field doesn't take more than 8 characters SD-4017
Unregistered user should see a registration form SD-4018
Unregistered user should be able to see different account types SD-4019
Unregistered user should be able to see Account Type and Select Account Type labels SD-4020
Unregistered user should be able to return to main page from Sign Up page SD-4021
Unregistered user who wants to open Self-employed account should be able to fill relevant information SD-4022
Unregistered user account creation page- Required fields validation SD-4023
Unregisterted user doesn't check terms of usage SD-4024
Unregisterted user should be able to return to main account creation page SD-4025
Unregistered User- Account creation button SD-4026
Unregistered user- Terms of usage link SD-4027
As an unregistered user (Company), I should receive a confirmation email upon SIGN UP SD-4028
As an unregistered user (Self Employed), I should receive a confirmation email upon SIGN UP SD-4029
As an unregistered user (Employee), I should receive a confirmation email upon SIGN UP SD-4030
Unregistered user should be able to activate user account SD-4031
Unregistered user (Company) should be able to register with social media accounts SD-4032
User (Company) who logs into MealB app is navigated to the dashboard SD-4033
SD-4022
To Do
Actions
Description
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form
German Mishlyev
Rustam Anvarov
Charen Ayed

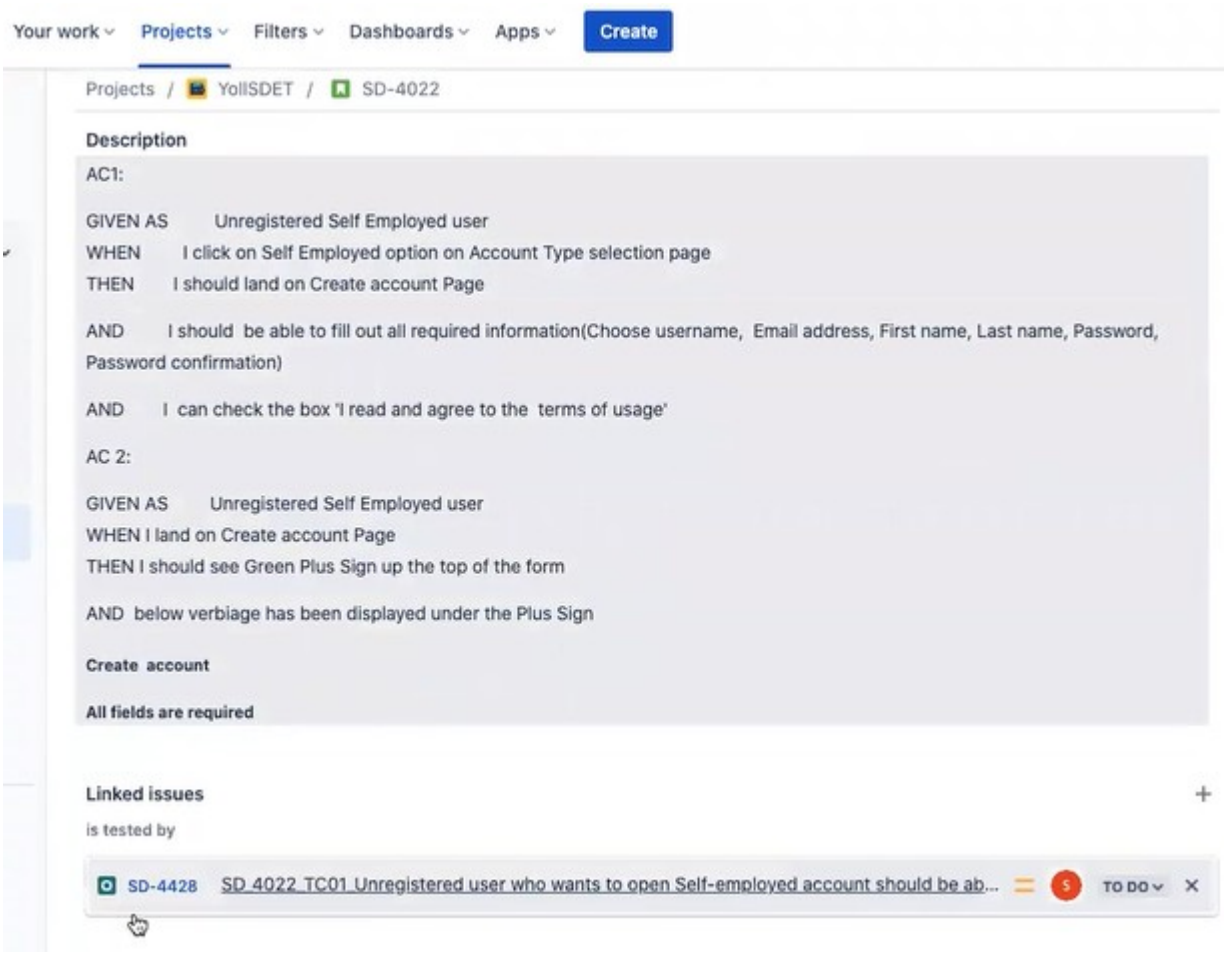

Projects / YollSDET / SD-4022
Description
AC1:
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'
AC 2:
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form
AND below verbiage has been displayed under the Plus Sign
Create account
All fields are required

Create the first TEST CASE TC001 for

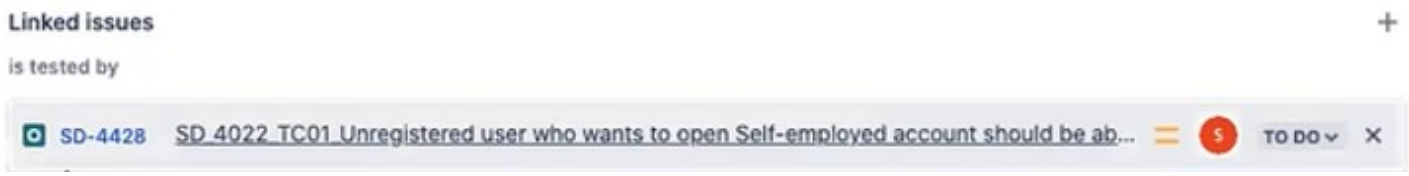
AC2

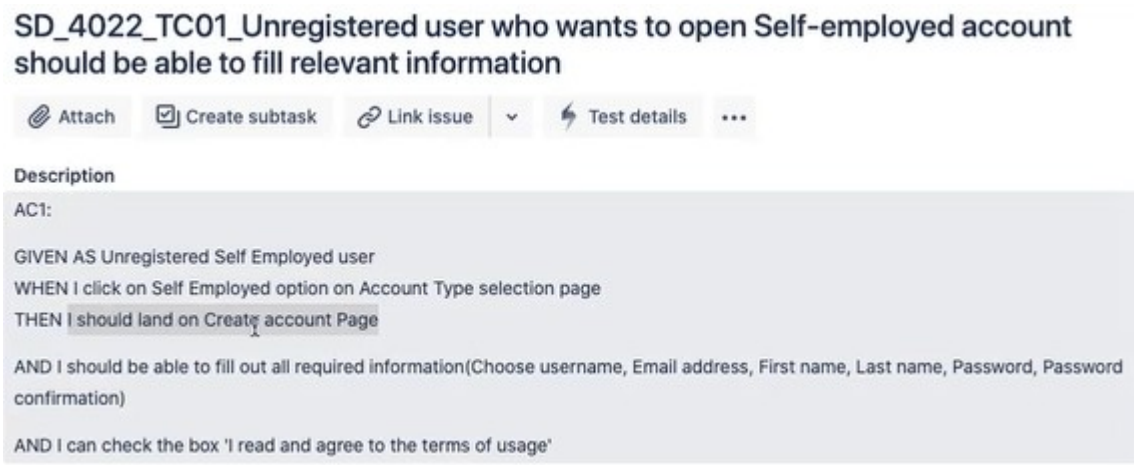

Create issue
AC1:
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'
Reporter *
sevda
Linked Issues
tests
Select Issue
OPEN ISSUES
SD-4022 Unregistered user who wants to open Self-employed account should be able to fill relevant information

Create, refresh tthe page:


Your work
Projects
Filters
Dashboards
Apps
Create
Projects / YollSDET / SD-4022
Description
AC1:
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'
AC 2:
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form
AND below verbiage has been displayed under the Plus Sign
Create account
All fields are required
Linked issues
is tested by
SD-4428
SD_4022_TC01_Unregistered user who wants to open Self-employed account should be ab...
TO DO

Click on the link:




SD_4022_TC01_Unregistered user who wants to open Self-employed account should be able to fill relevant information
Attach
Create subtask
Link issue
Test details
Description
AC1:
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'

Add the steps:

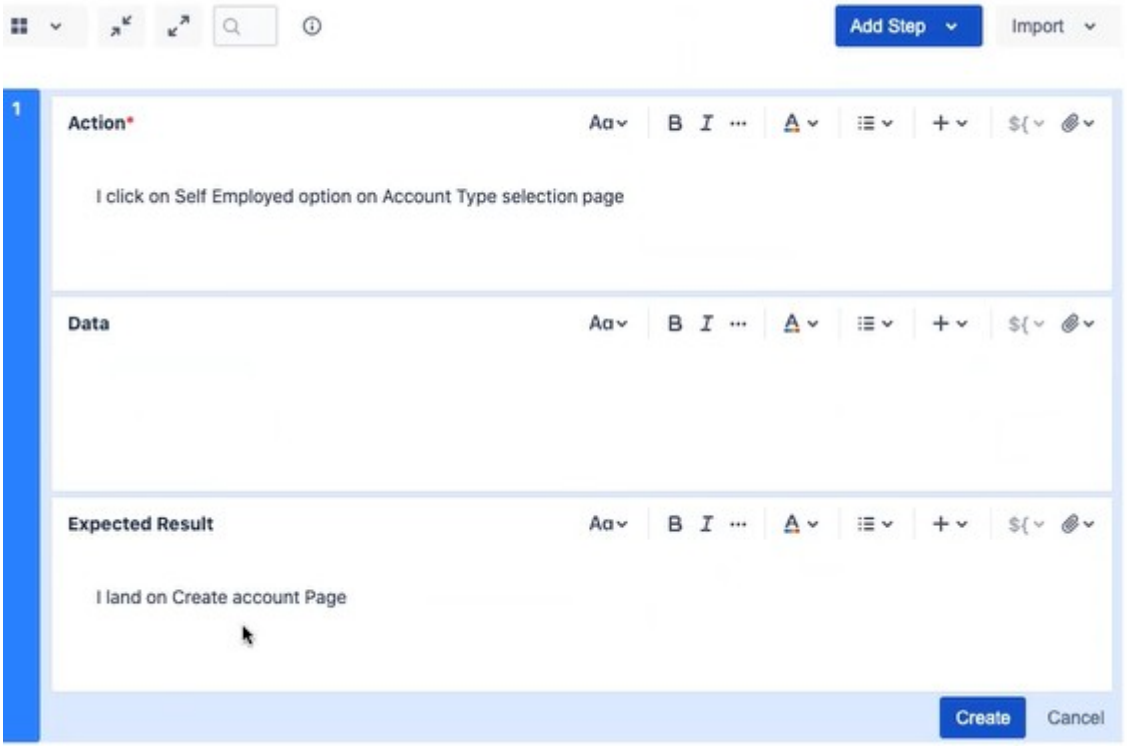
Description

AC1:

GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page

GIVEN AS Unregistered Self Employed User is >> *Precondition* - STEP "0"

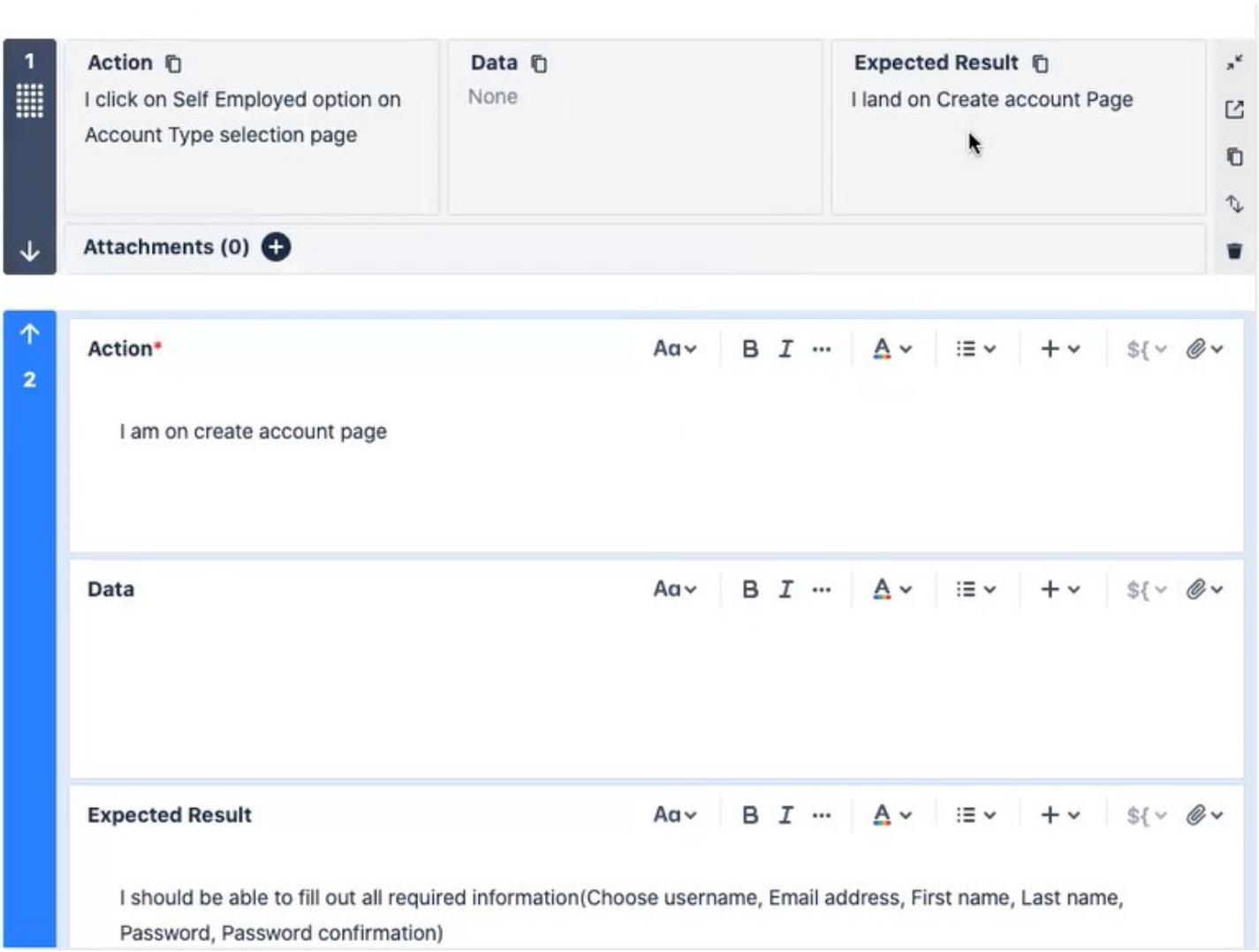
STEP "1" is >> WHEN I click Self Employed on Account Type selection page



Add the Second Step:

I have the expected result, but not the ACTION (ACTUAL RESULT)

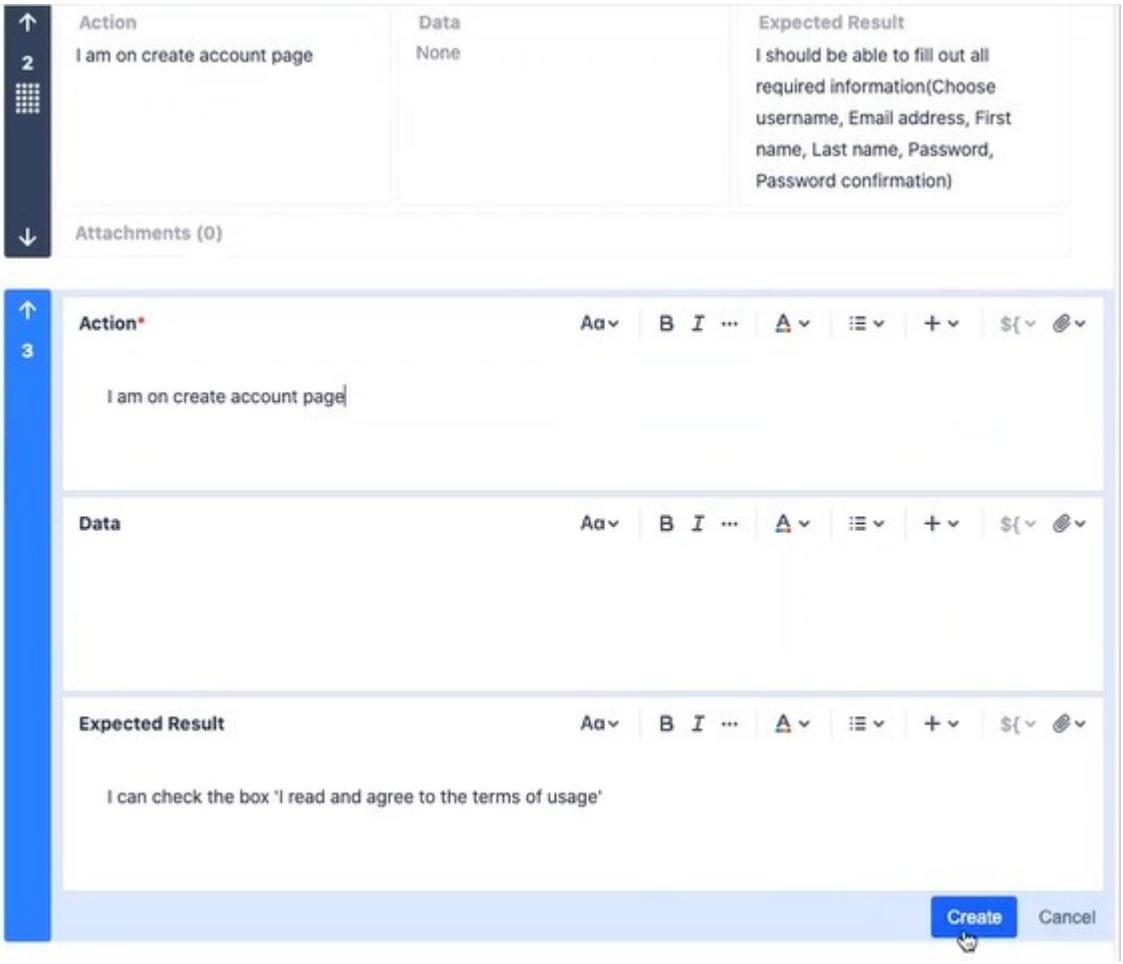
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)

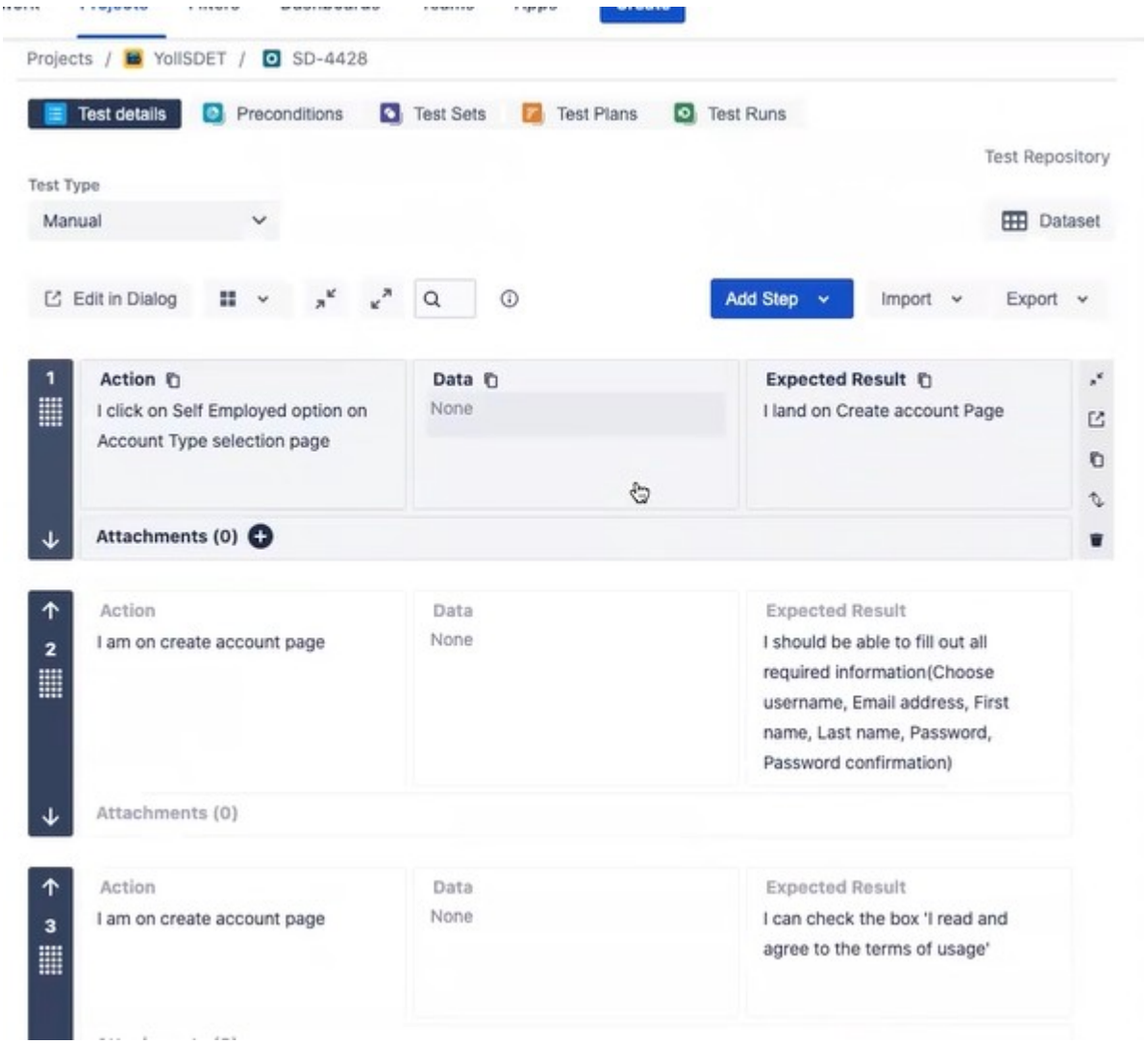

1
Action
I click on Self Employed option on Account Type selection page
Data
None
Expected Result
I land on Create account Page
Attachments (0)
2
Action*
I am on create account page
Data
Expected Result
I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)

Add the third step:

The same thing as before: I do not have the ACTUAL RESULT, Which means, I am still on Create Account Page.

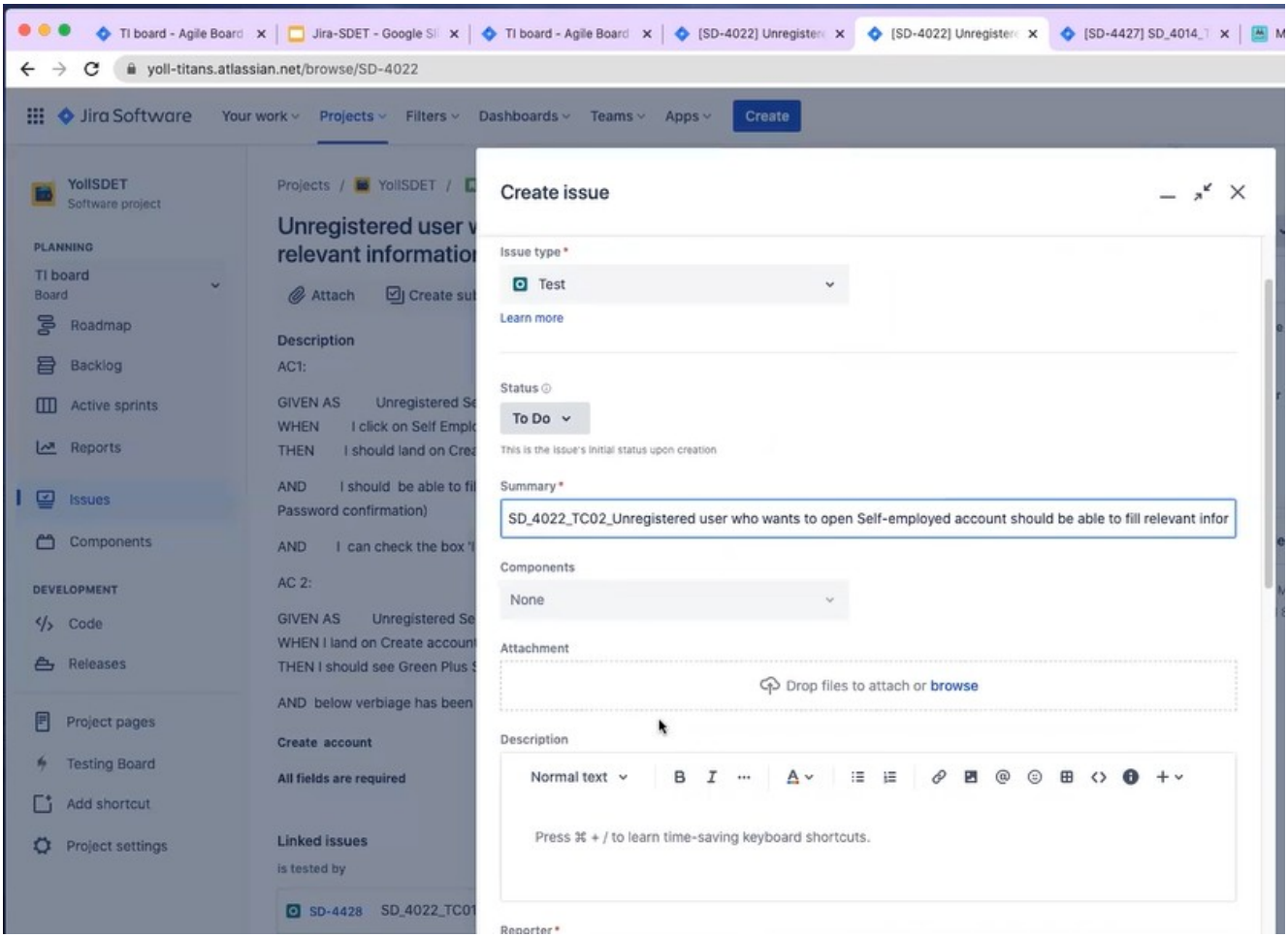
AND I can check the box 'I read and agree to the terms of usage'

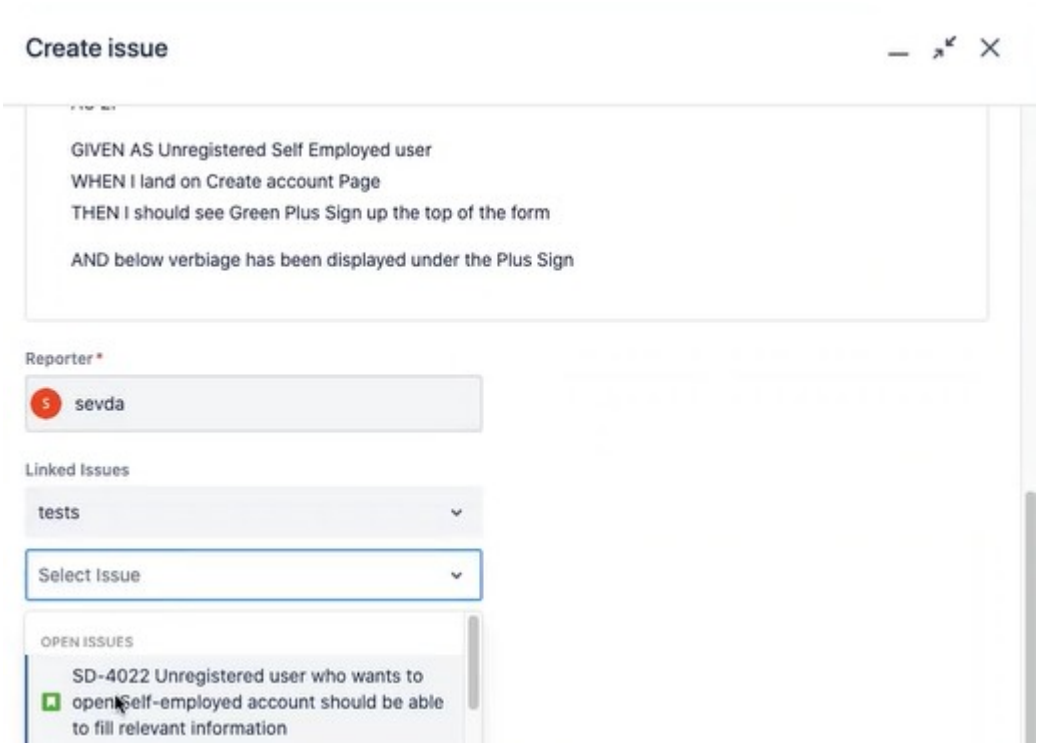

2
Action
I am on create account page
Data
None
Expected Result
I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
Attachments (0)
3
Action*
I am on create account page
Data
Expected Result
I can check the box 'I read and agree to the terms of usage'
Create
Cancel



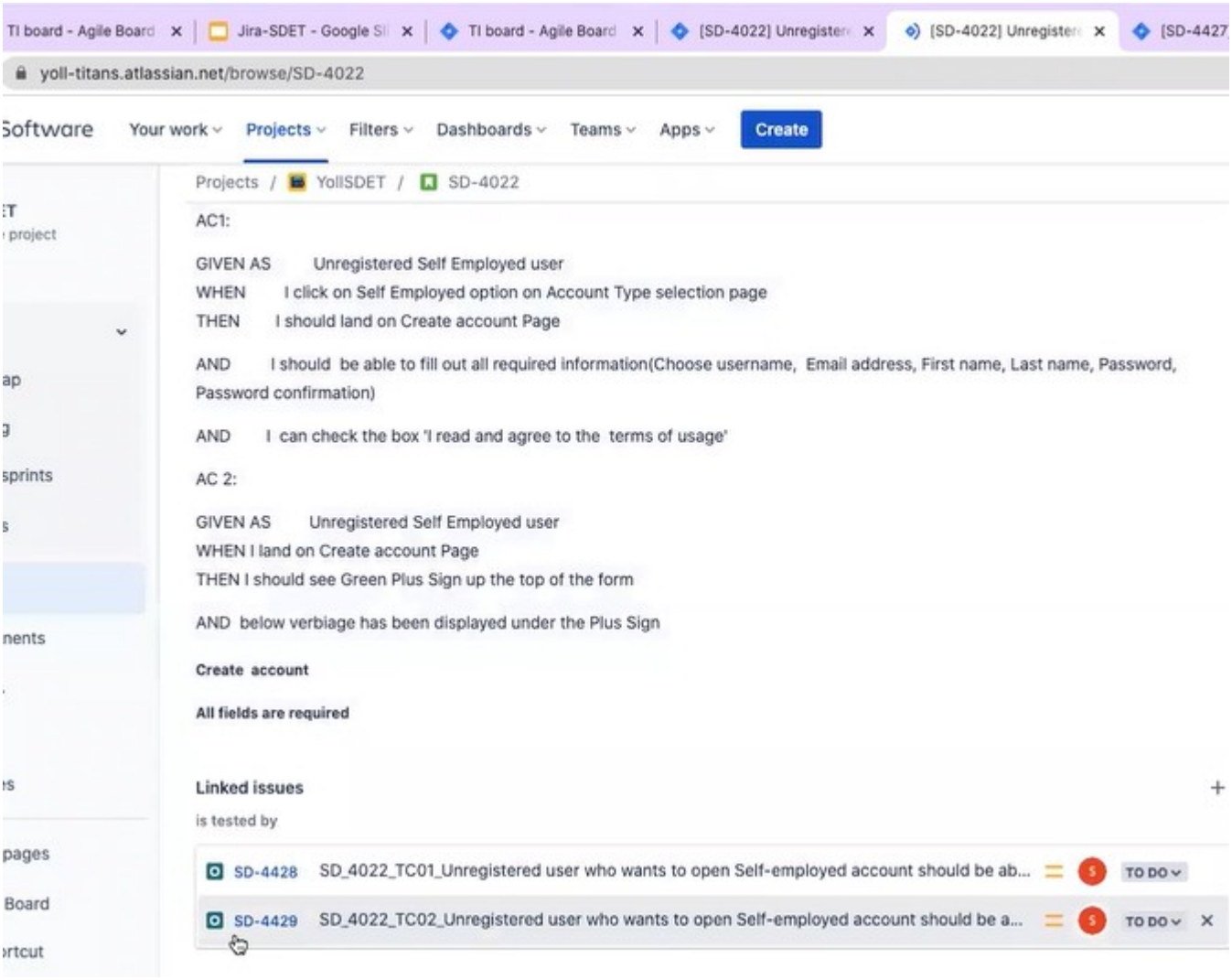
Create the second TEST CASE TC002 because we have TWO SCENARIOS on the USER STORY

AC2

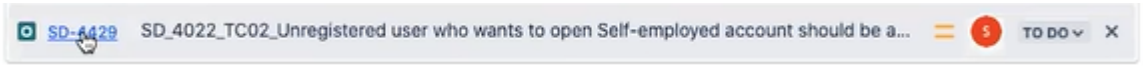


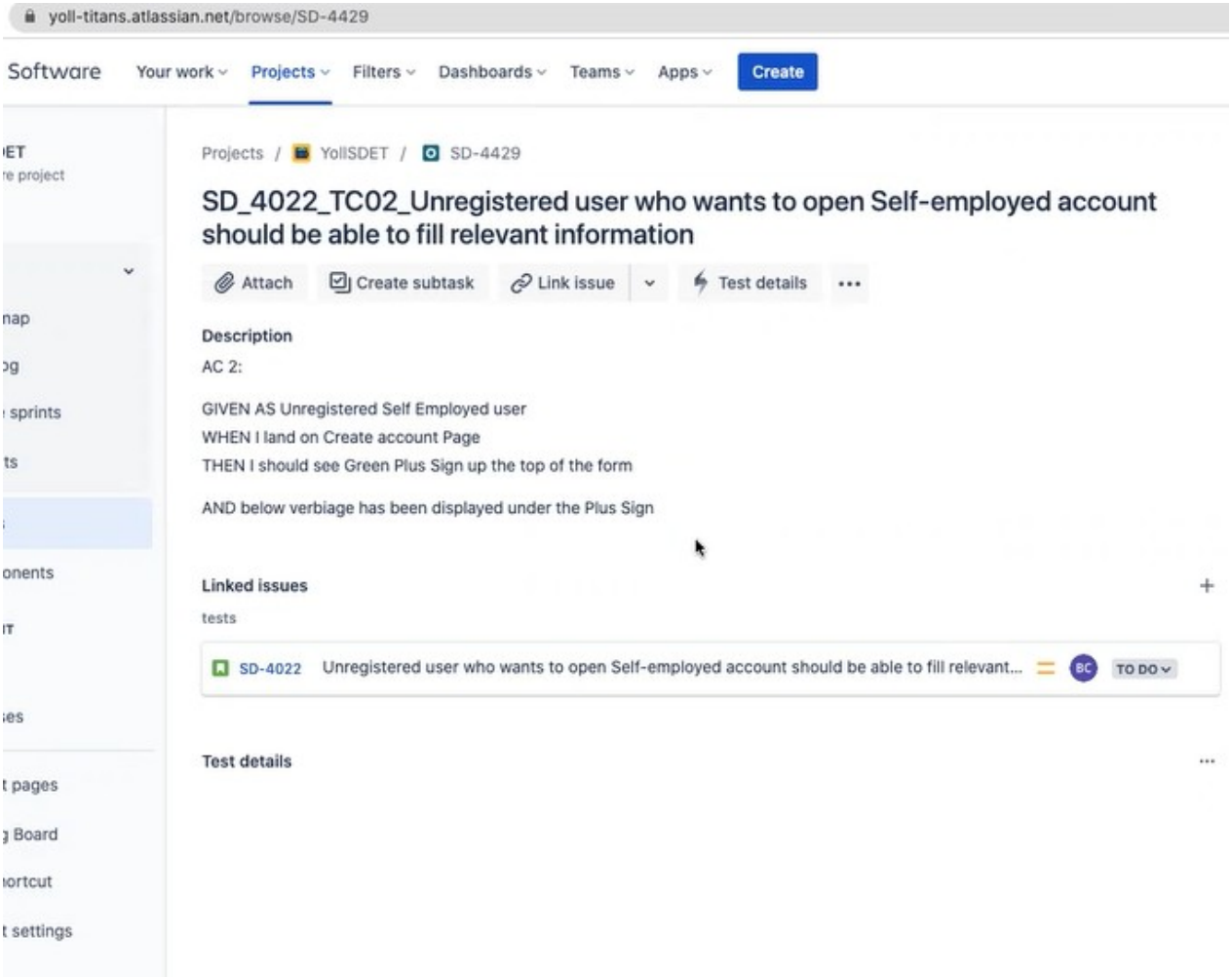

Create issue
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form
AND below verbiage has been displayed under the Plus Sign
Reporter *
sevda
Linked Issues
tests
Select Issue
OPEN ISSUES
SD-4022 Unregistered user who wants to open Self-employed account should be able to fill relevant information

The second TEST CASE is Created:


TI board - Agile Board
Jira-SDET - Google Sl
TI board - Agile Board
[SD-4022] Unregister
[SD-4022] Unregister
[SD-4427
yoll-titans.atlassian.net/browse/SD-4022
Software
Your work
Projects
Filters
Dashboards
Teams
Apps
Create
Projects / YollSDET / SD-4022
AC1:
GIVEN AS Unregistered Self Employed user
WHEN I click on Self Employed option on Account Type selection page
THEN I should land on Create account Page
AND I should be able to fill out all required information(Choose username, Email address, First name, Last name, Password, Password confirmation)
AND I can check the box 'I read and agree to the terms of usage'
AC 2:
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form
AND below verbiage has been displayed under the Plus Sign
Create account
All fields are required
Linked issues
is tested by
SD-4428 SD_4022_TC01_Unregistered user who wants to open Self-employed account should be ab... TO DO
SD-4429 SD_4022_TC02_Unregistered user who wants to open Self-employed account should be a... TO DO

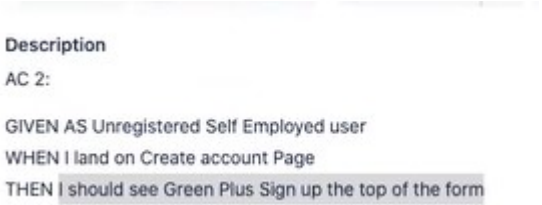
Click on the link, and start adding the steps:

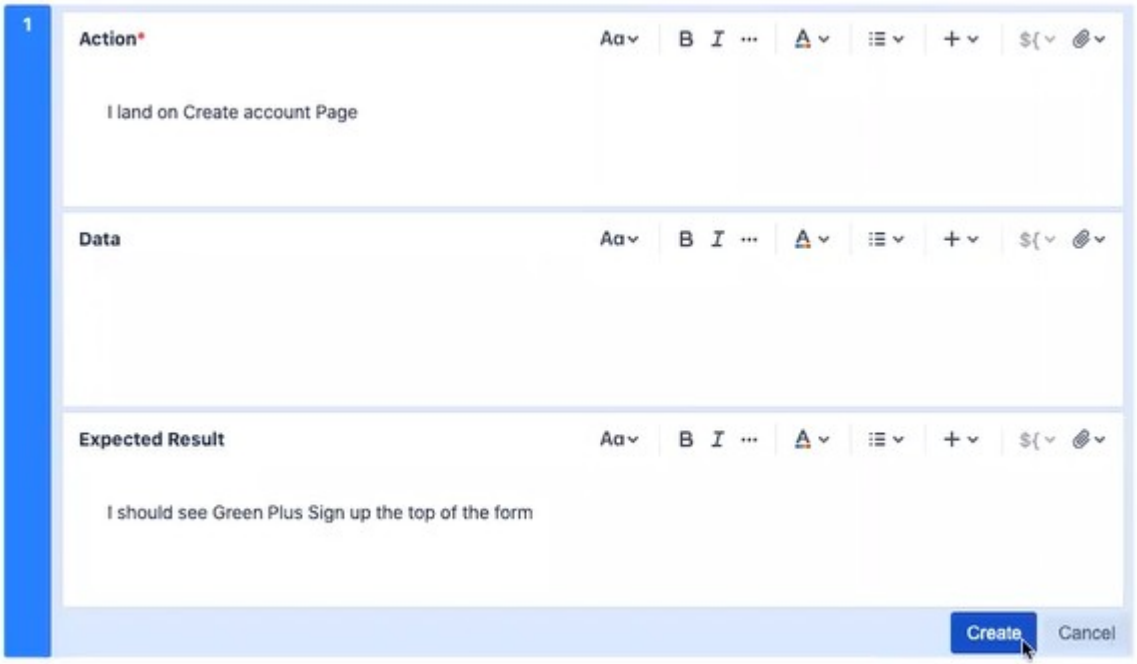


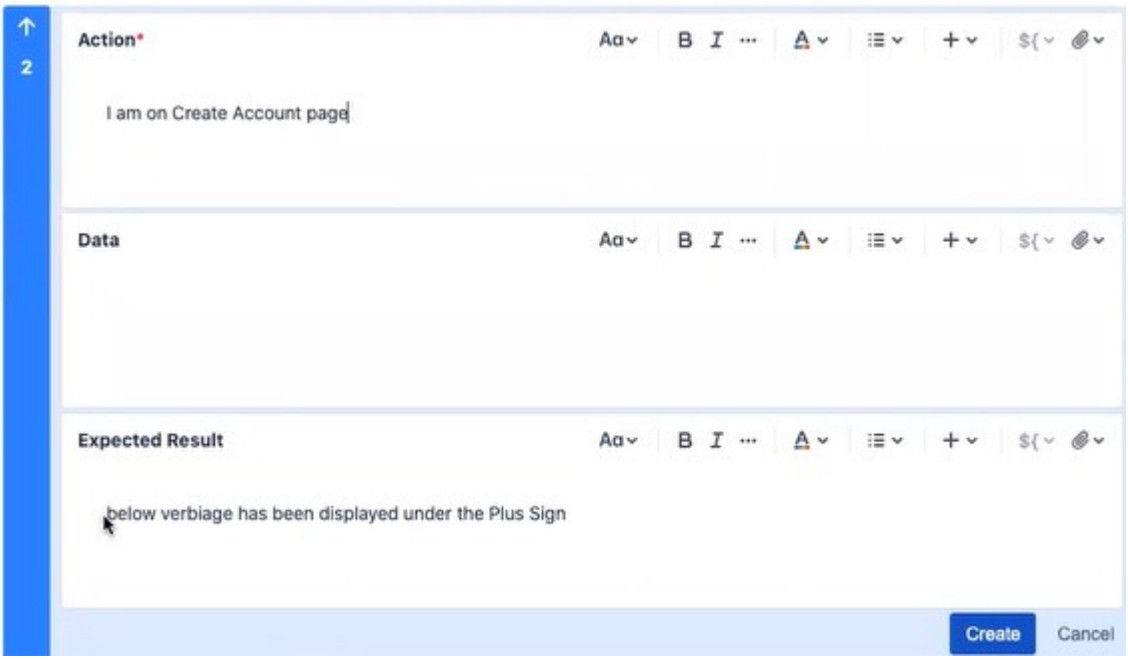


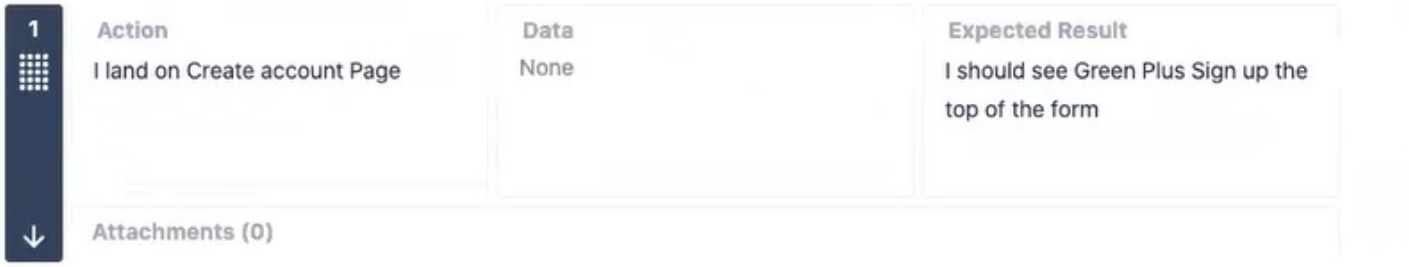
GIVEN AS Unregistered Self Employed User is >> *Precondition* - STEP "0"

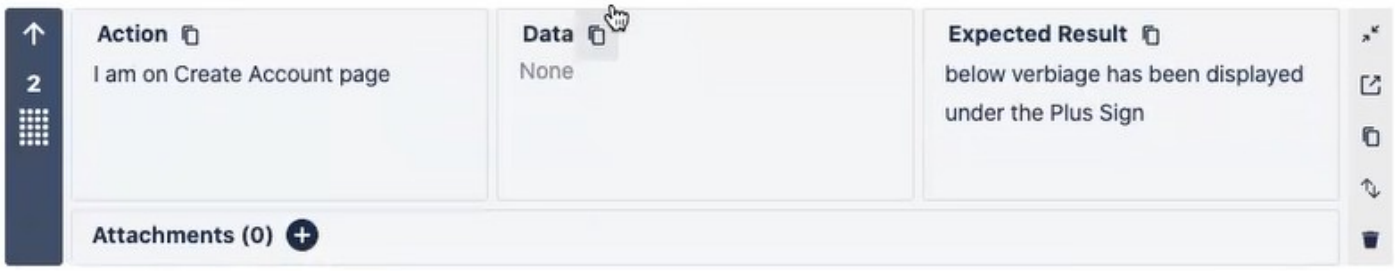
STEP "1" is >> WHEN I land Create account Page


Description
AC 2:
GIVEN AS Unregistered Self Employed user
WHEN I land on Create account Page
THEN I should see Green Plus Sign up the top of the form

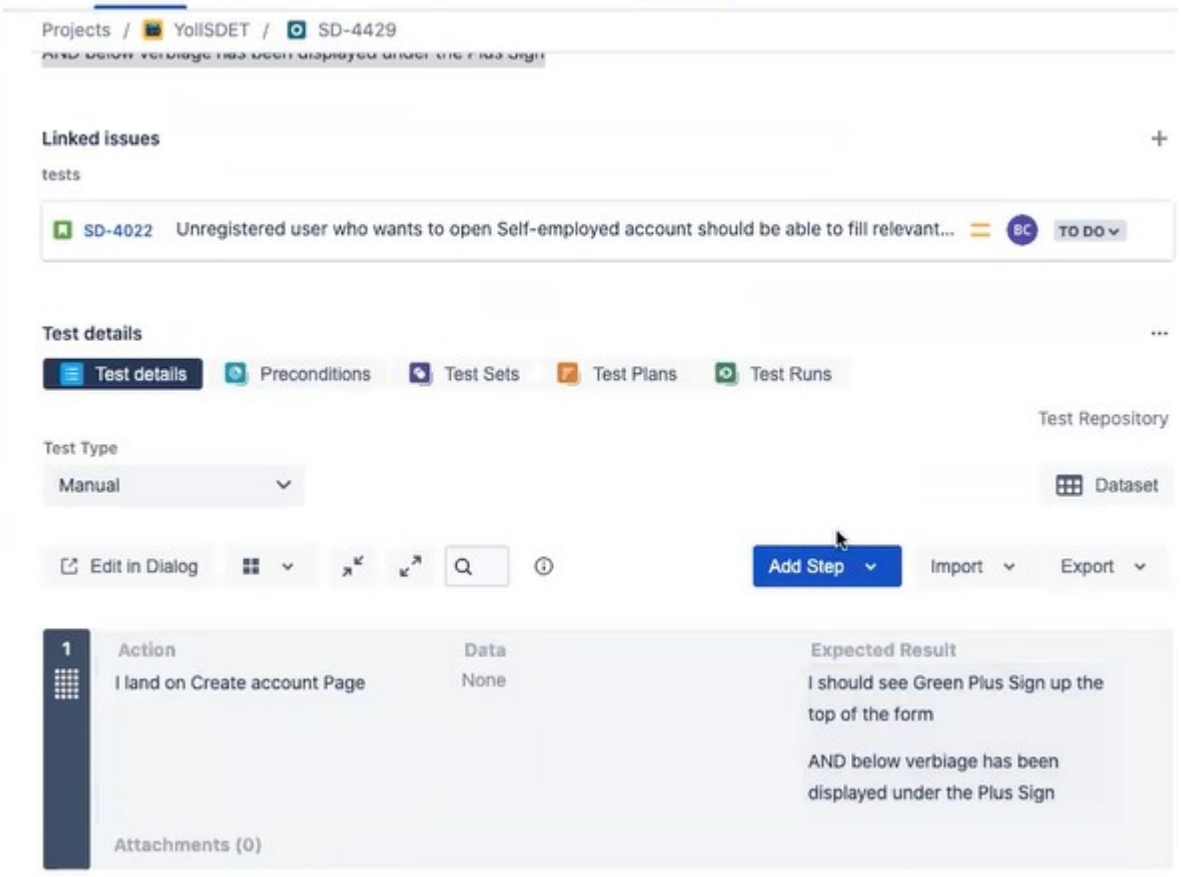

1
Action*
I land on Create account Page
Data
Expected Result
I should see Green Plus Sign up the top of the form
Create
Cancel


2
Action*
I am on Create Account page
Data
Expected Result
below verbiage has been displayed under the Plus Sign
Create
Cancel

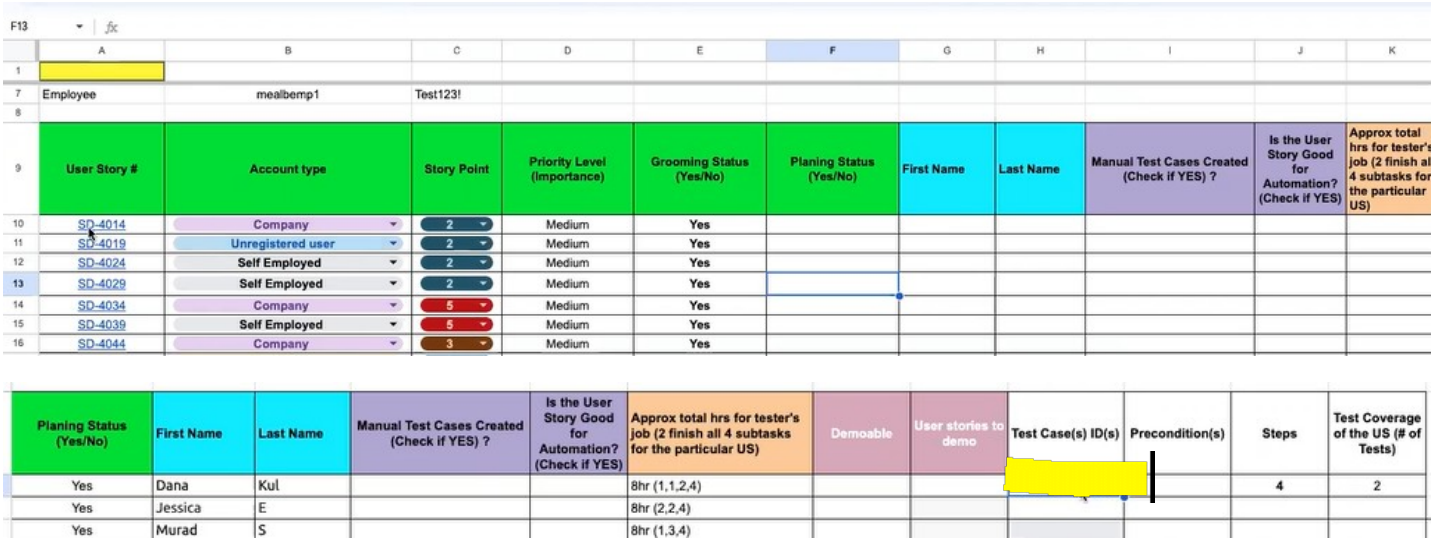




We can create only one step for the scenario:



Add the TEST CASE to the Excel Sheet:



F13 fx

	A	B	C	D	E	F	G	H	I	J	K
1											
7	Employee	mealbemp1	Test123!								
8											
9	User Story #	Account type	Story Point	Priority Level (Importance)	Grooming Status (Yes/No)	Planing Status (Yes/No)	First Name	Last Name	Manual Test Cases Created (Check if YES) ?	Is the User Story Good for Automation? (Check if YES)	Approx total hrs for tester's job (2 finish al 4 subtasks for the particular US)
10	SD-4014	Company	2	Medium	Yes						
11	SD-4019	Unregistered user	2	Medium	Yes						
12	SD-4024	Self Employed	2	Medium	Yes						
13	SD-4029	Self Employed	2	Medium	Yes						
14	SD-4034	Company	5	Medium	Yes						
15	SD-4039	Self Employed	5	Medium	Yes						
16	SD-4044	Company	3	Medium	Yes						

Planing Status (Yes/No)	First Name	Last Name	Manual Test Cases Created (Check if YES) ?	Is the User Story Good for Automation? (Check if YES)	Approx total hrs for tester's job (2 finish all 4 subtasks for the particular US)	Demoable	User stories to demo	Test Case(s) ID(s)	Precondition(s)	Steps	Test Coverage of the US (# of Tests)
Yes	Dana	Kul			8hr (1,1,2,4)					4	2
Yes	Jessica	E			8hr (2,2,4)						
Yes	Murad	S			8hr (1,3,4)						